Agriculture Statistics Yearbook 1989

Alberta
AGRICULTURE
AGDEX 853-10

Agriculture Statistics Yearbook 1989

91-00421/

Copies of this publication may be obtained from:

Statistics Branch
Alberta Agriculture
7000 - 113 Street
Edmonton, Alberta, T6H 5T6

Price: $15.00 Canadian

PREFACE

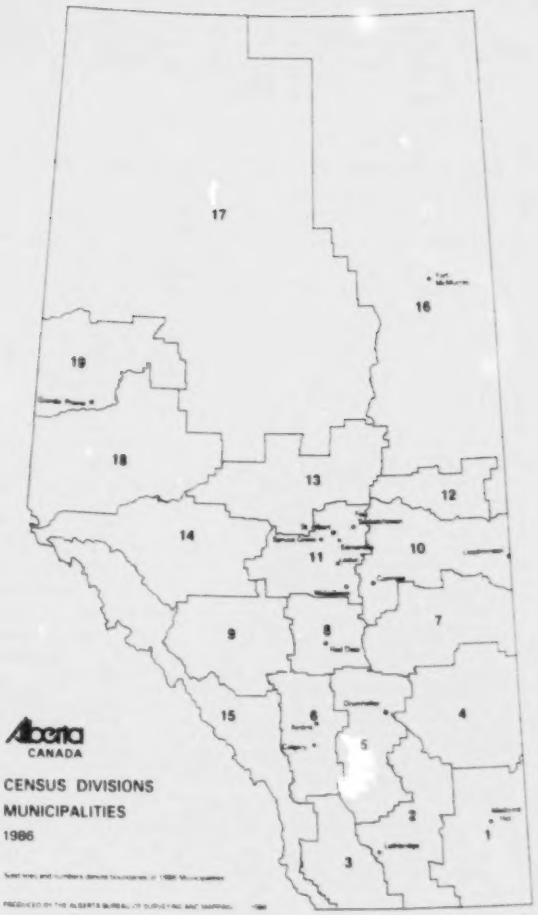
The Agriculture Statistics Yearbook for Alberta provides 1989 statistics where available, otherwise the most current statistics are provided, thereby serving as a reference to those interested in agriculture in Alberta. Although several graphs and short tables date back a few years, long term data and tables for years prior to 1988 may be obtained from the Statistics Branch. In addition, we remind users that the data in this publication is subject to revision.

The Statistics Branch publishes and revises much of the data in this publication throughout the year. This data is released on statistics fact sheets a format which may be more appropriate for those individuals wishing only selected pages of this publication. If this is the type of information that you require, please contact us at any time during the year.

Data was derived from several sources with major contributions made by the Agriculture/Natural Resources Division, Statistics Canada in cooperation with Alberta Agriculture. We also gratefully acknowledge the cooperation of Agriculture Canada and contributions of other federal and provincial departments mentioned within Sources and Methods located at the back of this publication.

Special appreciation is extended to all the agricultural producers and processors who responded to surveys or supplied other information to either Statistics Canada or Alberta Agriculture.

Evaluation of this publication and suggestions for improvements will be greatly appreciated and should be forwarded to Statistics Branch, Alberta Agriculture, Edmonton.



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1989 IN REVIEW

FARM CASH RECEIPTS

Realized Net Income for Alberta farmers in 1989 is estimated to have been $783 million which represents a 13 per cent decline over the previous year's record level of $905 million. Realized Net Income, which is income available after expenses to pay down principal on debt and for personal consumption, investment, savings and taxes is estimated to be below 1988 levels because of declines in program payments, especially WGSA and the Special Canadian Grains Program. Payments under the Federal Drought Assistance initiative and other programs make up approximately 12 per cent of Total Farm Cash Receipts in 1989 while transfers under the Alberta Farm Fertilizer Price Protection Plan, the Crow Benefit Offset and various other expense reduction programs reduced expenses by about three per cent.

Total Farm Cash Receipts for 1989, estimated at $4,509 million, were two per cent higher than 1988. Increased cereal grain receipts and greater returns from cattle contributed to the increase in Farm Cash Receipts. The estimate includes approximately $126 million paid out in drought assistance and a delayed Western Grain Stabilization payment of $56 million.

Total Crop Receipts in 1989 were approximately $2,192 million or about four per cent below 1988 levels.

Total Livestock Receipts amounted to $2,317 million in 1989 or up over eight per cent from 1988 levels. The market actually returned over four per cent more in 1989 than in 1988 and in combination with higher deficiency and supplementary payments contributed to the sharp increase in livestock receipts. Total Operating Expenses increased by over six per cent in 1989 to $3,054 million from $2,862 million in 1988. Increases in feeder cattle purchases, crop insurance and stabilization premiums were largely responsible for the increase but were somewhat offset by decreases in fuel expenses.

Wheat

Receipts from the sale of wheat in 1989 were $694 million or slightly above the 1988 level. Calendar year 1989 deliveries of wheat were 4.2 million metric tonnes or 80 per cent of the 1988 level of 5.3 million tonnes. Despite the sizeable drop in deliveries, price increases had a more than offsetting impact and contributed to the significant increase in receipts. The Canadian Wheat Board initial payment for #1 CW Red Spring Wheat was increased to $155 per tonne basis Thunder Bay for the 1989-90 crop year from the previous years level of $150 per tonne.

Barley

Alberta Barley Receipts increased in 1989 to $374 million from the 1988 level of $255 million. Deliveries of barley in 1989 were approximately 3.5 million tonnes, compared to the 3.0 million tonnes a year earlier, contributing to the increase in receipts. The initial price of $120 per tonne basis in store Thunder Bay for the 1988-89 crop year was decreased to $85 per tonne for the 1989-90 crop year. The Alberta Input Monitoring System (AIMS) reported that the monthly average feed barley price for 1989 was $92.63 per tonne compared to the average for 1988 of $80.38 per tonne. The final payment for #1 CW Barley in 1988-89 was $4.23 per tonne.

Canola

Alberta canola receipts were estimated at $408 million in 1989, a decrease of eight per cent from the 1988 level. A 32 per cent decline in production was due primarily to the decrease in acreage from 3.5 to 2.7 million acres. Average producer prices for 1989 were estimated to be about $268 per tonne, down $36 per tonne from 1988.

Alberta exports of canola seed to Japan were 696 788 tonnes in 1989, in comparison to 587 682 tonnes the previous year. Canola prices dropped the last half of 1989 to the $235 to $263 per tonne range, considerably less than the $289 to $345 in evidence one year earlier.

Crop Insurance, Western Grain Stabilization, Etc.

Alberta farmers received $194 million in payouts under the Hail and Crop Insurance Program in 1989. This was over 12 per cent above the 1988 payment of $173 million. 1989 payouts include approximately $44 million paid out under the Forage Insurance Program.

Under the Western Grain Stabilization Act, payments to participating producers are triggered if net cash flow from grains is below the preceeding five year average. Payments to Alberta farmers over the last five years have been substantial and have amounted to almost $1 billion. Because the final portion of the payment for the 1987-88 crop year was delayed until January of 1989, $56 million shows up as receipts for 1989. There is no payment expected for either the 1988-89 or the 1989-90 crop years.

In 1989 total direct crop program payments to Alberta producers were estimated to be $380 million or about 17 per cent of total crop receipts.

Cattle and Calves

Provincial receipts from the sale of cattle and calves in 1989 amounted to nearly $1,462 million which represented more than a five per cent increase over the 1988 level. Total inspected cattle slaughter increased nationally by about two per cent but increased provincially by over five per cent to 1,290,249 head. International live cattle exports decreased by over five per cent to 217,079 head in 1989. Since 1986 these exports have consisted largely of slaughter cattle exports to the U.S.A. The Calgary A1,2 slaughter steer price averaged $80.58/cwt in 1989, which was above the previous year, largely due to increased competition for slaughter cattle in the province. 800-900 lb feeder steers averaged $89.77/cwt on the Edmonton market in 1989 while the previous year they averaged $92.01/cwt.

Increased slaughter cattle prices, adequate feed supplies and the influence of the provincial Crow Benefit Offset Program were largely responsible for the continued strong demand for feeder cattle in 1989.

Tripartite Red Meat Stabilization made payments under both the slaughter and feed cattle programs in 1989. The slaughter cattle model has provided payments for the year totalling approximately $47 million. The feeder cattle model, with a much smaller participation rate, provided a payment of approximately $1.8 million in 1989.

Hogs

Total receipts from the sale of hogs were nearly equal to 1988levels at estimated $249 million in 1989. Alberta producers delivered 1.9 million hogs for slaughter in 1989 which represents a two per cent increase over 1988 numbers. The marginally decreased

Index 100 hog prices experienced in 1989 offset the increased hog delivery numbers resulting in little change in total hog receipts. Alberta hog exports to the U.S.A. again increased in 1989, but by only 15 per cent, unlike the ten fold increase seen in 1988. The dramatic increase in export numbers in 1988 came about as a result of strong demand from the U.S.A. and labor related problems within the domestic pork processing industry. The Tripartite Red Meat Stabilization Program made payments to Alberta hog producers in 1989 totalling $85 million.

Dairy

Receipts from the sale of milk and cream increased by almost four per cent in 1989 to $247 million from $238 million in 1988. The increase in dairy receipts is attributable to price and volume increases for fluid and industrial milk. Cream prices were also higher in 1989 although the volume of cream sales was lower than 1988.

In the 1989/90 dairy year, the average price paid to producers for fluid milk increased to $43.34/hl from 43.27/hl in 1988/89.

OPERATING EXPENSES

Total Operating Expenses for 1989 increased to $3,054 million from the 1988 level of $2,862 million. Increases in farm labor costs, machinery repair, crop insurance premiums and feeder cattle purchases from outside of the province were largely responsible for the increase in operating expenses. The largest increase in expenses was in the "feeder cattle purchased" category. At an estimated $258 million, this category was over 13 per cent higher than the 1988 level. Offsetting the increase in operating expenses to some degree was the decline in fuel and lubricant expense.

Interest Payments

Interest expenses in 1989 were estimated to be $446 million or up three per cent from the 1988 level of $434 million. Producer participation in government programs to reduce interest expenses helped keep this category from rising more dramatically in 1989. Chartered bank prime rates averaged approximately 13.3 per cent in 1989, compared to the 1988 level of 10.8 per cent. Farm debt outstanding at the end of 1989 is estimated to have dropped slightly to approximately $5.5 billion compared to $5.6 billion at the end of 1988. The increase in interest payments can almost wholly be attributed to higher interest rates, especially on short term debt.

Machinery Expenses

Machinery Expenses, which includes repairs and fuel, is once again projected to be the largest single expense category. In 1989 the total for this category was $497 million, slightly over the 1988 estimate of $490 million.

Alberta producers indirectly benefitted from the Alberta Farm Fuel Distribution Allowance which paid out $120 million to fuel distributors in 1989 in order to keep the price of marked fuels at a lower level for farm production. The amount of benefit to farmers during 1989 was $.09/litre on gas and $.14/litre on diesel fuel.

Machinery repair expenses increased to $311 million in 1989 compared to $293 million the previous year. This was offset by a decrease in the fuel expense category in 1989 at $187 million from $197 million in 1988, primarily due to an increase in diesel fuel rebates.

Fertilizer Expenses

The Agricultural Input Monitoring System reported that 1989 prices for Anhydrous Ammonia, including applicator, averaged approximately $374.27 per tonne compared to an average 1988 price of $378.14, a one per cent decline in price. The Alberta Farm Fertilizer Price Protection Plan reduced fertilizer expenses for Alberta producers by approximately $18 million in 1989 compared to $16 million in 1988.

Feed Expenses

Feed expenses as reported in the farm expense series pertain only to feed purchased through commercial channels. Inter-farm sales of feed are not included in the provincial feed expense estimate because the expense and receipt incurred by each party are viewed as offsetting transactions. Grains and forages grown on farms for feed purposes are also not included because the cost of inputs used in their production is captured under crop expenses. Feed expenses in 1989 increased by almost three per cent to $280 million largely because of increased usage and increased livestock numbers. AIMS reports that feed barley prices increased by over 25 per cent in 1989 from previous year levels. Prices for feed supplements increased by approximately five per cent in 1989 over 1988 levels.

The higher price for feed barley was offset somewhat by benefits received under the Crow Benefit Offset Program (CBOP) which resulted in continued low levels for total feed expenses. The CBOP reduced feed expenses by an estimated $48 million in 1989 compared to a figure of $47 million in 1988.

Other Livestock Expenses

This category increased to $309 million in 1989. This represents nearly a 12 per cent increase over the 1988 level and is almost entirely due to increases in the number of feeder cattle entering the province. In 1989, 225,320 head of feeder cattle were brought into the province from Saskatchewan, over eight per cent above the previous year's level of 207,650 head. Feeder cattle imports from British Columbia in 1989 also remained at healthy levels.

Assistance Programs

The Alberta Government continues to provide agricultural assistance programs where need is shown. The scope of the programs offered in 1989 was broad and provided for financial assistance for agricultural research, debt refinancing, new loans, disaster assistance, farm operating expense reduction and expansion of the food and agricultural processing sector. Research funding was also provided under the Farming for the Future Research Program.

There was continued emphasis on expense reduction programs in 1989 through such programs as the Farm Fertilizer Price Protection Plan which provided $18 million in payments, the Alberta Farm Fuel Distribution Allowance which reduced fuel expenses by $120 million and the Alberta Farm Credit Stability program which provided shielding from interest rate increases and amounted to over $70 million in benefits in 1989.

In total, provincial programs provided direct payments of over $560 million to Alberta producers in 1989.

Table 1
PRODUCTION AND GROSS FARM VALUE OF AGRICULTURAL PRODUCTS

	Production		Value Per Unit (1)		Total Value	
	1988r	1989p	1988r	1989p	1988r	1989p
	- tonnes -		- dollars -		- dollars -	
Field Crops:						
Wheat	5 285 000	6 445 000	169.04	129.65	893,376,400	835,594,300
Oats for grain	1 650 000	1 619 000	132.77	84.00	219,070,500	135,996,000
Barley for grain	5 813 000	5 704 000	116.80	95.25	678,958,400	543,306,000
Rye	71 100	180 500	109.00	81.00	7,749,900	14,620,500
Mixed grains	204 000	184 000	129.69	93.89	26,456,800	17,275,800
Flaxseed	22 900	40 600	366.00	331.00	8,381,400	13,438,600
Canola/Rapeseed	1 905 000	1 293 000	300.00	262.00	571,500,000	338,766,000
Mustard seed(2)	22 200	34 000	352.74	286.60	7,830,800	9,744,400
Potatoes	291 000	280 000	159.61	152.12	46,446,500	42,593,600
Sugar beets(3)	540 400	499 100	37.33	44.50	20,173,100	22,210,000
Tame hay	9 072 000	8 890 000	72.87	70.54	661,076,600	627,100,600
Other crops					136,232,000	108,035,000
Total Field Crops					3,141,020,400	2,600,645,700
Livestock and Livestock Products:						
Cattle and Calves					1,226,605,000	1,288,640,000
Hogs					250,055,000	245,420,000
Sheep and Lambs					7,275,000	8,190,000
Total Livestock					1,483,935,000	1,542,250,000
Dairy					242,140,000	250,006,000
Poultry and Eggs					133,427,000	143,255,000
Honey					9,510,000	7,590,000
Other Livestock and Products					16,209,000	21,435,000
Total Livestock and Products					1,885,221,000	1,964,536,000

1 Source: Alberta Agriculture average farm value estimates.
2 Source: Alberta Agriculture Specialty Crop Survey.
3 Source: Alberta Sugar Beet Growers Marketing Board.
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Table 2
CASH RECEIPTS FROM THE SALE OF FARM PRODUCTS

	1988		1989p	
	$ 000	% of Total	$ 000	% of Total
Wheat	686,000	15.6	694,000	15.4
Oats	66,000	1.5	89,000	2.0
Barley	255,000	5.8	374,000	8.3
Western Grain Stabilization	180,000	4.1	56,000	1.3
Crop Insurance Payments, etc.	173,000	3.9	194,000	4.3
C.W.B. Net Cash Advance & Deferments	-59,000	-1.3	31,000	0.7
Rye	8,000	0.2	6,000	0.1
Flaxseed	7,000	0.1	6,000	0.1
Canola/Rapeseed	444,000	10.1	408,000	9.0
Sugar Beets	19,000	0.4	23,000	0.5
Potatoes	40,000	0.9	42,000	0.9
Vegetables	31,000	0.7	34,000	0.8
Floriculture and Nursery	34,000	0.8	37,000	0.8
Other Crops	79,000	1.8	68,000	1.5
Deficiency & Supplementary Payments	315,000	7.1	130,000	2.9
Total Crops	**2,278,000**	**51.7**	**2,192,000**	**48.6**
Cattle and Calves	1,386,000	31.4	1,462,000	32.4
Hogs	249,000	5.6	249,000	5.5
Sheep and Lambs	7,000	0.2	7,000	0.2
Milk and Cream	238,000	5.4	247,000	5.5
Poultry and Eggs	132,000	3.0	142,000	3.1
Other Livestock	38,000	0.9	30,000	0.7
Deficiency & Supplementary Payments	80,000	1.8	180,000	4.0
Total Livestock and Products	**2,130,000**	**48.3**	**2,317,000**	**51.4**
Total Cash Receipts	**4,408,000**	**100.0**	**4,509,000**	**100.0**

Note: Interim and final payments received through the Canadian Wheat Board (wheat, oats and barley) are included in the calendar year in which payments were received by farmers.

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SOURCE OF FARM INCOME

(Per Cent)

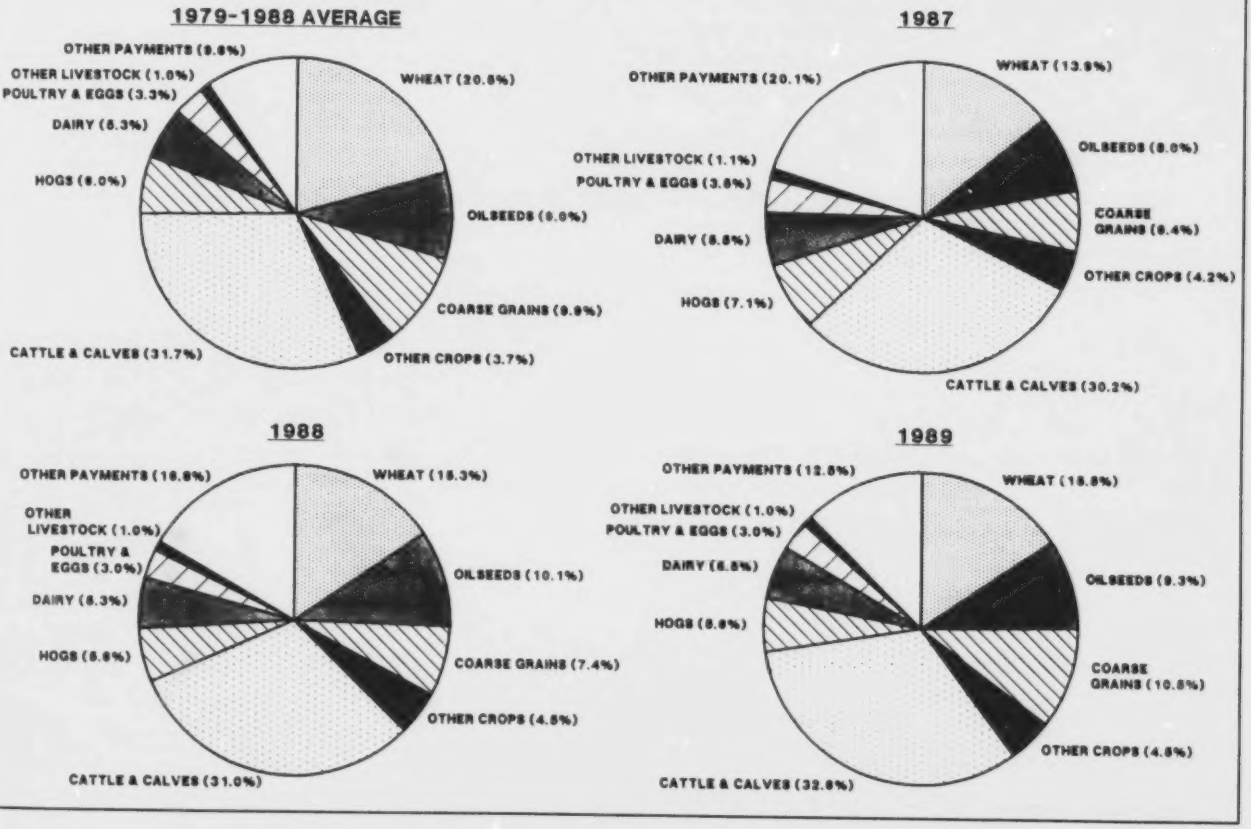

Table 3
CASH RECEIPTS FROM THE SALE OF FARM PRODUCTS BY MAJOR PRODUCT OR PRODUCT GROUP

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
WHEAT ($ millions)	656	1,151	958	1,000	1,003	699	517	559	686	694
% of crop receipts	44.8	55.3	48.8	49.0	47.0	35.6	28.5	26.8	30.1	31.6
% of total receipts	20.9	29.9	25.1	26.7	25.2	18.3	13.7	13.9	15.5	15.3
OTHER CEREALS ($ millions)	369	519	505	464	342	293	340	256	329	469
% of crop receipts	25.2	24.9	25.7	22.7	16.0	14.9	18.7	12.2	14.4	21.3
% of total receipts	11.7	13.5	13.2	12.4	8.6	7.7	9.0	6.3	7.4	10.4
OILSEEDS ($ millions)	334	295	260	347	407	350	274	321	451	415
% of crop receipts	22.8	14.2	13.3	17.0	19.1	17.8	15.1	15.4	19.7	18.9
% of total receipts	10.6	7.7	6.8	9.3	10.2	9.1	7.3	8.0	10.2	9.2
OTHER INCOME/CROPS ($ millions)	71	85	147	121	127	201	187	164	144	234
% of crop receipts	4.8	4.1	7.5	5.9	5.9	10.2	10.3	7.8	6.3	10.6
% of total receipts	2.3	2.2	3.9	3.2	3.2	5.2	4.9	4.0	3.2	5.1
CROP PROGRAM PAYMENTS ($ millions)	35	31	92	110	257	423	496	784	668	380
% of crop receipts	2.4	1.5	4.7	5.4	12.0	21.5	27.3	37.6	29.3	17.3
% of total receipts	1.1	0.8	2.4	2.9	6.5	11.0	13.2	19.5	15.1	8.4
TOTAL CROP RECEIPTS ($ millions)	1,465	2,081	1,962	2,042	2,136	1,966	1,814	2,084	2,278	2,192
% of total receipts	46.6	54.1	51.5	54.4	53.6	51.3	48.3	52.1	51.7	48.6
CATTLE ($ millions)	1,200	1,180	1,106	1,125	1,163	1,181	1,104	1,211	1,386	1,462
% of livestock receipts	71.5	66.7	59.8	65.8	62.9	63.4	56.9	63.1	65.0	63.0
% of total receipts	38.2	30.6	29.0	30.0	29.2	30.8	29.4	30.2	31.4	32.4
HOGS ($ millions)	166	190	223	202	255	248	279	285	249	249
% of livestock receipts	9.9	10.7	12.1	11.8	13.8	13.3	14.3	14.8	11.7	10.7
% of total receipts	5.3	4.9	5.8	5.4	6.4	6.5	7.4	7.1	5.6	5.5
DAIRY, POULTRY, EGGS ($ millions)	249	295	318	316	355	345	351	355	370	388
% of livestock receipts	14.8	16.7	17.2	18.5	19.2	18.5	18.1	18.4	11.6	16.7
% of total receipts	7.9	7.7	8.3	8.4	8.9	9.0	9.3	8.8	8.3	8.6
OTHER LIVESTOCK ($ millions)	31	36	34	35	35	28	41	48	45	38
% of livestock receipts	1.8	2.0	1.8	2.0	1.9	1.5	2.1	2.5	2.1	1.6
% of total receipts	1.0	0.9	0.9	0.9	0.9	0.7	1.0	1.1	1.0	0.8
LIVESTOCK PROGRAM PAYMENTS ($ mil.)	33	68	169	31	40	62	164	20	80	180
% of livestock receipts	2.0	3.8	9.1	1.8	2.2	3.3	8.4	1.0	3.7	7.7
% of total receipts	1.0	1.8	4.4	0.8	1.0	1.6	4.3	0.4	1.8	3.9
TOTAL LIVESTOCK RECEIPTS ($ mil.)	1,679	1,769	1,850	1,709	1,848	1,864	1,939	1,919	2,130	2,317
% of total receipts	53.4	45.9	48.5	45.6	46.4	48.7	51.7	47.9	48.3	51.4
TOTAL RECEIPTS ($ millions)	3,144	3,850	3,812	3,751	3,984	3,830	3,753	4,003	4,408	4,509

Table 4
NET INCOME OF FARM OPERATORS FROM FARMING OPERATIONS

	1988r	1989p	% Change
	- thousand dollars -		
1. Total Cash Receipts	4,408,000	4,509,000	+ 2.3
2. Income in Kind	26,000	26,000	0.0
3. Realized Gross Income (1+2)	4,434,000	4,535,000	+ 2.3
4. Operating and Depreciation Charges	3,529,000	3,752,000	+ 6.3
5. Realized Net Income (3-4)	905,000	783,000	- 13.6
6. Value of Inventory Changes	43,000	19,000	- 54.8
7. Total Gross Income (3+6)	4,477,000	4,554,000	+ 1.7
8. Total Net Income (7-4)	948,000	802,000	- 15.4

Table 5
INCOME IN KIND

	1988	1989p	% Change
	- thousand dollars -		
Dairy Products	729	612	- 16.0
Poultry and Eggs	1,978	2,315	+ 17.0
Meat	16,218	16,009	- 1.3
Fruit and Vegetables	52	56	+ 7.7
Honey and Maple Products	2	1	- 50.0
Forest Products	6,524	6,524	0.0
Wool	16	16	0.0
Total	25,519	25,533	+ 0.1

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r Revised

Table 6
NET INCOME OF FARM OPERATORS FROM FARMING OPERATIONS

	1 Total Cash Receipts	2 Income In Kind	3 (1+2) Realized Gross Income	4 Op. & Deprec. Charges	5 (3-4) Realized Net Income	6 Value of Inventory Changes	7 (3+6) Total Gross Income	8 (7-4) Total Net Income
				- thousand dollars -				
1962	575,000	19,000	594,000	345,000	249,000	21,000	615,000	270,000
1963	529,000	19,000	548,000	369,000	179,000	103,000	651,000	282,000
1964	602,000	18,000	620,000	400,000	220,000	8,000	628,000	228,000
1965	669,000	19,000	688,000	430,000	258,000	28,000	716,000	286,000
1966	769,000	18,000	787,000	470,000	317,000	36,000	823,000	353,000
1967	796,000	17,000	813,000	510,000	303,000	-42,000	771,000	261,000
1968	805,000	17,000	822,000	549,000	273,000	62,000	884,000	335,000
1969	740,000	18,000	758,000	552,000	206,000	45,000	803,000	251,000
1970	720,000	17,000	737,000	550,000	187,000	32,000	769,000	219,000
1971	814,000	16,000	830,000	611,000	219,000	17,000	847,000	236,000
1972	965,000	17,000	982,000	690,000	292,000	26,000	1,008,000	318,000
1973	1,244,000	21,000	1,265,000	849,000	416,000	204,000	1,469,000	620,000
1974	1,748,000	18,000	1,766,000	1,095,000	671,000	-12,000	1,754,000	659,000
1975	1,902,000	17,000	1,919,000	1,287,000	632,000	99,000	2,018,000	731,000
1976	1,897,000	21,000	1,918,000	1,495,000	423,000	82,000	2,000,000	505,000
1977	1,963,000	20,000	1,983,000	1,615,000	368,000	-74,000	1,909,000	294,000
1978	2,289,000	24,000	2,313,000	1,846,000	467,000	100,000	2,413,000	567,000
1979	2,843,000	28,000	2,871,000	2,283,000	588,000	74,000	2,945,000	662,000
1980	3,144,000	30,000	3,174,000	2,677,000	497,000	152,000	3,326,000	649,000
1981	3,850,000	23,000	3,873,000	3,301,000	572,000	68,000	3,941,000	640,000
1982	3,812,000	21,000	3,833,000	3,380,000	453,000	-85,000	3,748,000	368,000
1983r	3,751,000	20,000	3,771,000	3,358,000	413,000	-193,000	3,578,000	220,000
1984r	3,984,000	20,000	4,004,000	3,581,000	423,000	-320,000	3,684,000	103,000
1985r	3,830,000	19,000	3,849,000	3,571,000	278,000	-25,000	3,824,000	253,000
1986r	3,753,000	25,000	3,778,000	3,410,000	368,000	499,000	4,277,000	867,000
1987r	4,003,000	26,000	4,029,000	3,406,000	623,000	-28,000	4,001,000	595,000
1988r	4,408,000	26,000	4,434,000	3,529,000	905,000	43,000	4,477,000	948,000
1989p	4,509,000	26,000	4,535,000	3,752,000	783,000	19,000	4,554,000	802,000

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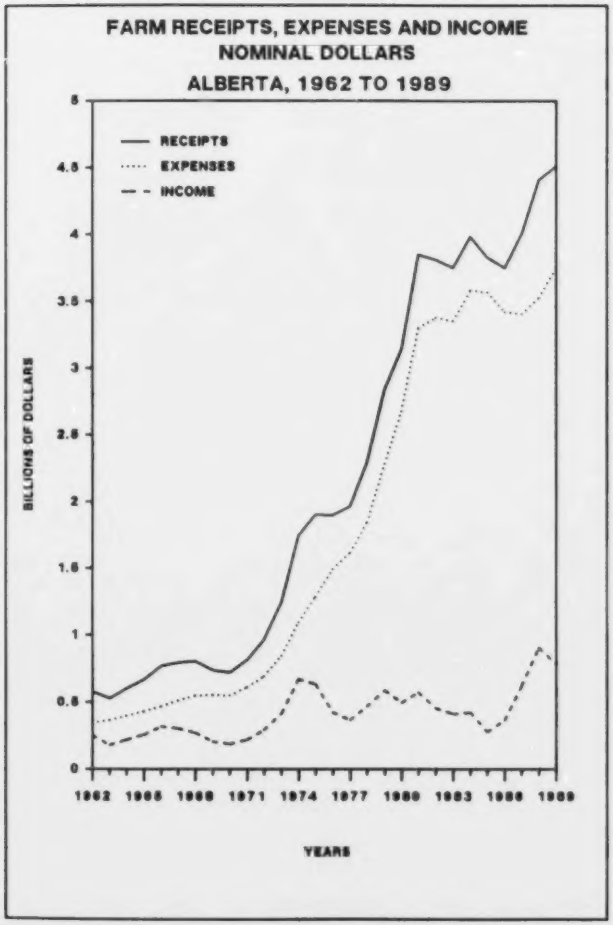

FARM RECEIPTS, EXPENSES AND INCOME
NOMINAL DOLLARS
ALBERTA, 1962 TO 1989
RECEIPTS
EXPENSES
INCOME
BILLIONS OF DOLLARS
YEARS

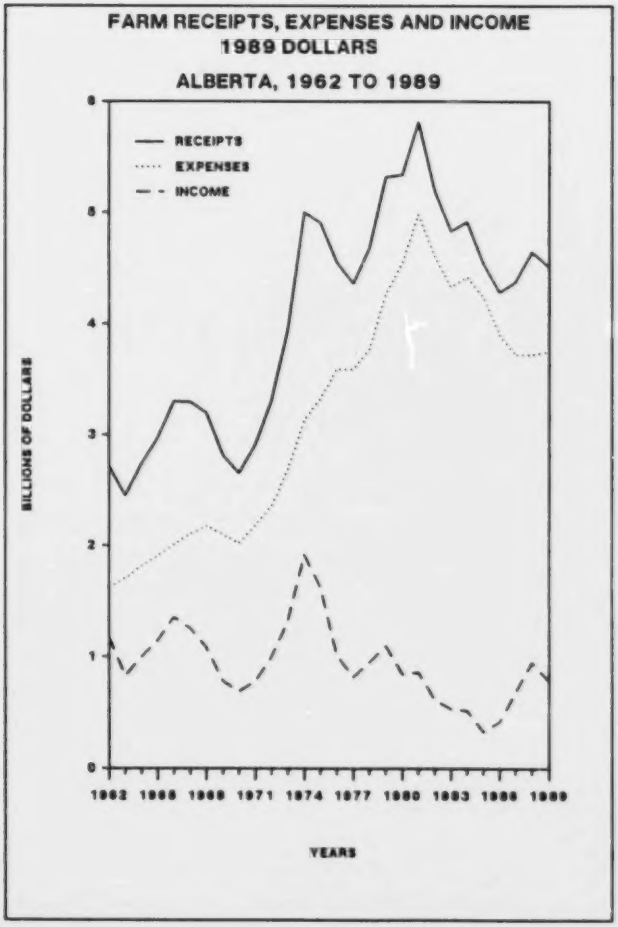

FARM RECEIPTS, EXPENSES AND INCOME
1989 DOLLARS
ALBERTA, 1962 TO 1989
RECEIPTS
EXPENSES
INCOME
BILLIONS OF DOLLARS
YEARS

Table 7
FARM OPERATING EXPENSES AND DEPRECIATION CHARGES

	1988r	1989p	% Change
	- thousand dollars -		
Taxes	69,000	73,000	+ 5.8
Gross Farm Rent	160,000	170,000	+ 6.3
Wages	272,000	292,000	- 7.4
Interest	434,000	446,000	+ 2.8
Fuel and Lubricants (1)	197,000	187,000	- 5.1
Machinery Repairs and Expenses	293,000	310,000	+ 5.8
Fertilizer and Lime (1)	252,000	272,000	+ 7.9
Other Crop Expenses	284,000	323,000	+ 13.7
Feed	273,000	280,000	+ 2.6
Other Livestock Expenses	277,000	309,000	+ 11.6
Repairs to Buildings and Fences	97,000	103,000	+ 6.2
Electricity and Telephone	69,000	69,000	0.0
Miscellaneous	185,000	220,000	+ 19.6
Total Operating Expenses	2,862,000	3,054,000	+ 6.7
Depreciation of Buildings and Machinery	667,000	698,000	+ 4.6
Total Expenses and Depreciation	3,529,000	3,752,000	+ 6.3

1 Provincial and Federal payments and subsidies have been deducted from commodity expenses.
p Preliminary
r Revised

Table 8
AVERAGE FARM INPUT PRICES

	January-March	April-June	July-September	October-December	1989 Average
Lumber 2 x 6 spruce, M	370.73	362.56	368.02	371.40	368.18
Sheathing, ply., fir, 3/8", 4 x 8 sht	11.74	11.07	11.78	12.95	11.89
Cement, 40 kg	8.54	8.59	8.55	8.54	8.55
Barn paint, oil base, gal.	23.88	24.10	23.47	24.04	23.87
Pipe, plastic, 3/4", 75 psi., 100' coil	24.24	23.95	24.12	25.10	24.35
Rods, re-enforcing 1/2", 6 metres	3.83	3.88	3.95	4.05	3.93
Barbed wire, 12 gauge, double strand	43.99	43.60	44.29	44.35	44.06
Truck tires, 1st line, P235-75R-15, ea.	109.16	107.70	110.80	113.65	110.33
Battery, 12 volt, 525 cranking amps, 24 series	76.69	77.42	77.93	77.37	77.35

Table 8 (cont'd)
AVERAGE FARM INPUT PRICES

	January-March	April-June	July-September	October-December	1989 Average
V-belt, 1/2" x 70", ea.	9.42	9.28	9.32	9.50	9.38
Antifreeze, 4 litres	11.30	11.52	11.90	11.79	11.63
Mechanical repairs, per hour	34.39	35.23	35.87	36.37	35.47
Baler twine - sisal 9000'	25.62	25.55	25.50	25.48	25.54
Farm labour, per month, without board	1,152.11	1,169.08	1,175.18	1,193.63	1,172.50
Tractor, 100 hp/up	59,143.44	60,204.36	61,610.49	61,957.63	60,728.98
Tractor, 170 hp/up	105,119.34	106,682.31	107,998.90	109,991.35	107,447.98
Combine, self-propelled	118,346.06	124,808.65	126,130.73	127,547.60	124,208.26
Chisel plow, 23-27'	14,351.31	14,825.55	14,945.14	14,934.60	14,764.15
Round baler, pull type	20,369.14	21,293.71	21,320.64	21,402.87	21,096.59
Double disc, heavy duty, 19'-21'	17,940.57	18,124.73	18,171.92	17,925.54	18,040.69
Truck, 1/2 ton, Ford/Chev	14,131.74	14,290.13	14,364.35	14,999.38	14,446.40
Calf starter supplement, (20-24%), 25 kg	9.04	9.05	9.09	8.92	9.02
Dairy supplement, (32%), 25 kg	10.13	10.11	10.09	10.01	10.09
Hog supplement, (40%), 25 kg	13.38	13.16	12.87	12.79	13.05
Broiler grower, (18-20%), 25 kg	9.25	9.18	9.00	8.82	9.06
Cattle mineral, 25 kg	17.13	17.23	17.29	17.28	17.23
Feed barley, No. 1, (farm gate), bu	2.41	2.33	2.03	2.01	2.19
Hay, good quality, baled, ton	68.21	64.41	61.22	62.16	64.00
Fertilizer, 46-0-0, tonne, bulk	248.40	258.70	258.87	224.80	247.69
Fertilizer, 11-51-0, tonne, bulk	370.73	377.21	377.66	357.76	370.84
Fertilizer, 82-0-0, tonne, bulk (appl. inc.)	378.93	382.80	380.54	354.81	374.27
2-4D low volatile, 20 litres	71.34	73.39	73.53	73.88	73.04
Avadex BW, liquid, 5 gal	177.75	177.85	177.80	178.46	177.97
Trifluralin, Treflan, 17 litre case	166.82	167.96	169.05	169.83	168.41
Penicillin, injectable, 100 cc.	5.33	5.34	5.42	5.50	5.40
Vitamin A D E, injectable, 100 cc.	5.13	5.16	5.18	5.20	5.17
Seed, wheat, 100 kg, bulk	27.67	28.91	29.21	29.18	28.74
Seed, barley, 100 kg, bulk	23.25	24.14	24.48	24.65	24.13
Purple gasoline, 100 litres(1)	25.84	26.58	28.86	29.51	27.70
Diesel fuel, 100 litres(1)	22.38	16.72	18.21	18.41	18.93
Propane, bulk, 100 litres	17.04	17.19	16.92	17.57	17.18
Natural gas, GJ	2.76	2.72	2.70	2.72	2.73
Diesel engine oil, 5 litres	8.77	8.89	9.12	9.11	8.97

1 Minus provincial rebate only.

Table 9
FARM CAPITAL AND FARM DEBT

	Land and Buildings	Livestock and Poultry	Implements and Machinery	Total	Farm Debt
			- thousand dollars -		
1967	3,206,599	604,245	843,354	4,654,198	N/A
1968	3,479,502	579,155	901,989	4,960,646	N/A
1969	3,409,912	746,291	934,211	5,090,414	N/A
1970	3,240,849	797,276	956,970	4,995,095	N/A
1971	3,530,252	803,855	867,446	5,201,553	932,598
1972	4,143,591	1,016,172	905,851	6,065,614	1,042,680
1973	5,181,261	1,380,491	986,590	7,548,342	1,291,334
1974	6,975,770	1,366,308	1,275,851	9,617,929	1,547,015
1975	8,957,880	1,024,330	1,726,808	11,709,018	1,775,419
1976	10,627,528	1,125,454	2,110,053	13,863,035	2,047,308
1977	12,523,091	1,099,894	2,430,618	16,053,603	2,249,456
1978	14,942,972	1,710,604	2,791,088	19,444,664	2,619,123
1979	21,172,490	2,478,357	3,297,240	26,948,087	3,067,422
1980	27,137,589	2,551,751	3,842,797	33,532,137	3,442,132
1981	29,961,159	2,531,865	4,362,215	36,855,239	4,105,139
1982r	29,682,516	2,558,137	4,718,939	36,959,592	4,604,131
1983r	27,368,393	2,560,395	4,939,443	34,868,231	5,040,737
1984r	24,966,230	2,589,888	4,997,971	32,554,089	5,174,740
1985r	23,019,800	2,333,315	5,143,193	30,496,308	5,353,043
1986r	20,773,520	2,430,102	5,382,302	28,585,924	5,549,580
1987r	19,817,938	2,743,475	5,370,517	27,931,930	5,497,981
1988r	19,302,672	2,868,235	5,408,932	27,579,839	5,595,642
1989p	21,329,453	2,974,685	5,592,942	29,897,080	5,507,753

p Preliminary
N/A Data not available

FIELD CROPS

1989 production of the six major grains was over 15.2 million metric tonnes. This was above the five year average of 14.37 million metric tonnes but down from the last two record crops of over 15.45 and 17.69 million metric tonnes in 1987 and 1986, respectively. The area seeded to the six major grains in 1989/90 was 18,130,000 acres, three per cent higher than the 17,550,000 acres seeded in 1988/89. While the area in grains increased, the area in hay production decreased by one per cent to 4,600,000 acres. Summerfallow decreased by seven per cent to 4,950,000 acres. Over 300,000 acres of special crops were grown.

CONDITIONS PRIOR TO THE 1989 GROWING SEASON

Dry weather in August and September of 1988 allowed harvest to progress rapidly. In late September rain hindered harvest, but allowed farmers to complete other field work. By the end of October, precipitation levels were above normal in all areas of the province except the extreme south.

Extreme cold winter temperatures caused a high incidence of winter kill in fall seeded crops. In the spring, soil moisture was adequate across the province, though southern and eastern areas had very low subsurface reserves.

Snowpack levels in the mountains were normal over winter. However, spring run-off in the south was reduced to below normal due to several chinook melts over the winter. Heavy run-off west of Edmonton resulted in some flooding. Ground water supplies were normal to above normal in the north and below normal in the south.

CROP CONDITIONS DURING THE 1989 GROWING SEASON

The season began with adequate surface soil moisture levels throughout the province. However, cool soil temperatures delayed seeding and as a result by early May less than ten per cent of seeding was complete as farmers waited for soil temperatures to rise. The percentage seeded in the province remained behind average until mid May. Seeding in the two central regions lagged behind as producers waited for rain before seeding canola. In late May rain and snow across the province delayed seeding further. Seeding was not complete until mid June.

The cool temperatures also delayed pasture growth. Pastures improved in June with the rain, but in order to maintain growth in southern and eastern areas more rain was needed. Low pasture water reserves were reported in eastern areas, while those in western districts were good. Soil temperature and dry conditions caused poor pastures to be a concern in eastern parts of the province. About one third of producers anticipated livestock water shortages.

Warm weather and showers in June allowed crops to emerge evenly and encouraged rapid growth. Showers provided adequate moisture throughout northern regions. However, in July, crops and pastures south of a line from High River to Oyen were experiencing varying degrees of drought stress. Pastures deteriorated rapidly from hot, dry weather and cattlemen began looking for emergency summer feed supplies. Scattered hail storms and heavy rains in July caused severe damage in many northern and central areas. Leaf diseases of cereals and fungal diseases in canola were common.

Swathing began in early August in the south and was ahead of the four year average until late August. With only 15 per cent of the crop combined, continual showers from mid-August to mid-September delayed harvest in the south. At the same time, heavy rainfall in northern areas delayed or halted harvest. As a result the harvest of fall crops was still incomplete in early September. The rain during harvest season caused bleaching and sprouting problems, particularly in soft white wheat and barley. A heavy frost early in September also decreased quality in many areas.

Only 38 per cent of swathing and 15 per cent of combining was complete until the rain ended in mid September. With favorable harvest weather from mid September onward, harvest progress caught up to the four year average by early October. Harvest for the year was completed by mid October for the majority of the province. However, an estimated 300,000 acres remained unharvested in the Peace River and North West Regions. Excessive moisture in the Spirit River-Rycroft, Valleyview and Evansburg areas kept harvest equipment off the fields. Some combining resumed after freeze-up.

Provincial yields were average or slightly above for all grains and oilseeds except canola which was slightly below. Quality and bushel weights of grain were low. Though only five per cent of barley was malt quality, feed grains were abundent and of fair to good quality. The area seeded to fall rye declined from 220,000 to 200,000 acres. The area seeded to winter wheat dropped 40 per cent from 340,000 to 200,000 acres.

INSECTS AND DISEASE

Insects and disease problems were of a concern this year. Beet webworm, clover cutworm and bertha army worm infestations were widespread. Leaf diseases were common in cereals, while fungal diseases in canola reduced yields.

In mid May tent caterpillars began hatching in north east districts and central Peace River Regions. They were most severe near Sedgewick and Wetaskiwin. Beet webworm and clover cutworm infestations were widespread in eastern and central Alberta, particularly during July. Bertha army worm infestations peaked in early August in central areas. Spraying occurred from Calgary northeast to Sedgewick. High counts of grasshoppers were found northwest of Edmonton and in the southwest corner of the province. In the south, aphids were abundant late in the season on cereals, corn and forages. Rusty grain beetles were a concern near Oyen. Other minor pest problems included sawfly, wireworms, stinkbugs and flea beetles.

Head and fungal diseases began to develop early in the season. The hot humid weather in August was ideal for fungal diseases such as Sclerotinia, blackleg and black spot in canola. Blackleg of canola spread further south. Root rot was also a problem. Net blotch and scald was a problem in barley while knucklehead was common in wheat. Winds and heavy rain also caused severe lodging in northern regions.

HAIL AND WEATHER DAMAGE

The Alberta Hail and Crop Insurance Corporation has reported that farmers insured approximately 11.7 million acres in 1989. The total premiums amounted to greater than $179 million. Indemnities paid out for the year were $185 million. Crop indemnities amounted to 51 per cent of the payout while hail accounted for 36 per cent. The Forage Program paid out 11 per cent of all indemnities.

IRRIGATION

The irrigation of field crops is a vital aspect of agriculture in Alberta and contributes to the stability of the southern Alberta economy. In 1989, the 13 Irrigation Districts had close to 1.18 million acres assessed as irrigable with 1.07 million acres actually being irrigated. This accounts for almost two-thirds of the irrigated land base in Canada. Cereal grains continue to be the most prominent crops grown under irrigation, representing 48 per cent of the irrigated acreage. Hay area followed with 24 per cent of the acreage. Oilseeds and other speciality crops were each six per cent of the total irrigated acreage.

All of Alberta's sugar beet crop and the majority of provincial commercial vegetables and potatoes are grown under irrigation.

Table 10
IRRIGATION BY DISTRICT, 1989

District	Assessed Irrigable Acres*	Acres Actually Irrigated
Aetna	3,500	1,962
Bow River	194,977	181,106
Eastern	256,353	249,623
Leavitt	4,729	3,900
Lethbridge Northern	121,909	127,333
Magrath	15,569	13,555
Mountain View	3,700	2,000
Raymond	44,144	35,766
Ross Creek	1,210	0
St. Mary's River	342,451	323,400
Taber	73,898	70,278
United	34,818	11,693
Western	87,242	52,153
Total	1,184,500	1,072,769

* Permanent and Terminable

Table 11
CROP ACRES IN THE MAJOR IRRIGATION DISTRICTS

	1986	1987	1988	1989
			- acres -	
Total Grains(1)	547,437	493,390	464,191	509,815
Total Oilseeds(2)	50,568	61,131	100,960	64,788
Total Hay(3)	235,246	251,494	258,438	257,719
Total Tame Pasture	50,759	62,794	65,748	73,643
Total Other Fodder(4)	36,208	37,275	41,094	49,777
Total Sugar Beets	28,400	29,382	29,456	29,618
Total Potatoes	16,684	17,692	16,316	18,729
Total Other Specialty Crops(5)	51,858	67,021	66,325	65,563
Total Crops Irrigated	1,017,160	1,020,179	1,042,528	1,069,652
Total Summerfallow	8,102	10,899	10,146	3,117
Total Irrigated Cropland	1,025,262	1,031,078	1,052,674	1,072,769

1 Wheat, oats, barley, mixed grain and rye.
2 Flaxseed, canola/rapeseed, sunflowers and mustard.
3 Alfalfa hay and sweet clover hay.
4 Greenfeed, silage corn, silage and grass hay.
5 Peas, corn, beans, timothy, brome grass, alfalfa seed, sweet clover seed, small seeds and miscellaneous crops.

Table 12
PRECIPITATION RECORDED
AT SELECTED ALBERTA STATIONS

Stations	April 1 - October 31 Incl. 1988	1989	1989/Normal
	- millimeters -		-%-
Medicine Hat	176.1	241.0	94
Brooks	177.9	291.8	118
Lethbridge	168.9	338.5	107
Pincher Creek	192.5	388.2	100
Calgary	364.4	303.0	87
Coronation	339.0	288.2	99
Red Deer	445.8	383.2	102
Rocky Mtn House	432.6	426.8	97
Lloydminster	447.5	378.6	106
Vegreville	353.8	374.0	114
Edmonton	464.9	406.0	112
Whitecourt	478.3	659.3	155
Cold Lake	414.6	344.3	96
Fort McMurray	405.2	397.5	110
Grande Prairie	321.6	543.7	172
Peace River	384.5	334.2	121
High Level	329.7	258.3	84

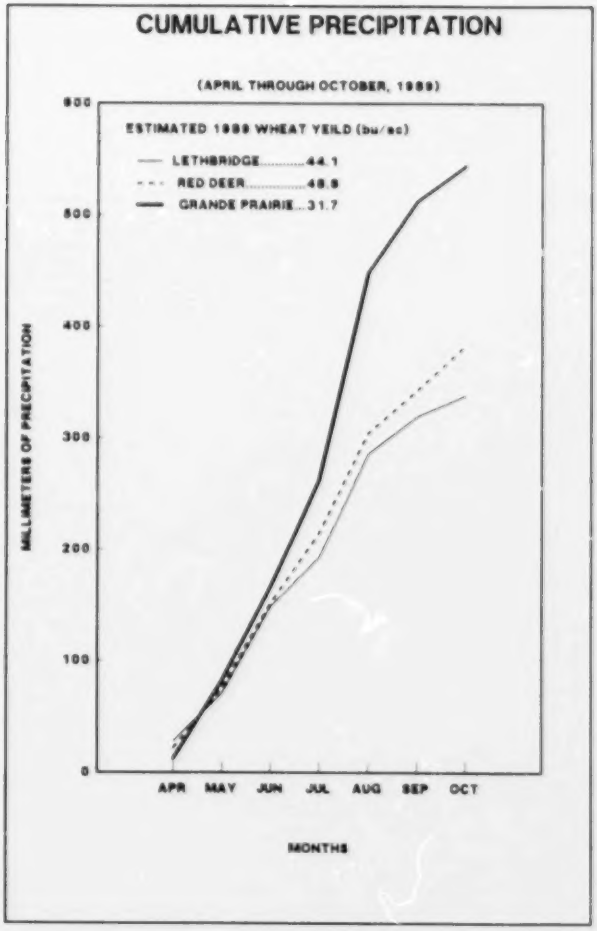


Table 13
HAIL AND CROP INSURANCE

	No. of Farmers Insured(1)	Acres Insured '000	Premium(2) $'000	Liability $'000	Indemnities $'000
1970	12,856	2,306	2,730	31,941	1,699
1971	11,323	2,429	2,900	33,310	2,410
1972	10,202	2,314	2,784	37,073	2,119
1973	12,296	3,201	7,883	73,399	6,436
1974	13,883	3,838	14,356	125,863	13,806
1975	18,685	5,113	27,259	215,976	18,320
1976	18,580	5,343	30,298	229,289	16,500
1977	20,878	6,301	36,954	279,520	38,130
1978	19,258	5,908	38,484	259,967	22,686
1979	18,658	5,933	42,554	282,846	26,304
1980	20,138	6,970	55,915	389,136	31,793
1981	19,878	7,163	66,529	493,528	27,215
1982	19,600	7,375	71,579	557,638	62,502
1983	20,933	8,443	88,086	673,083	75,467
1984	23,305	9,552	99,092	774,201	199,616
1985	23,433	10,678	117,489	863,115	274,359
1986	30,158	11,953	147,204	926,587	124,439
1987	28,395	11,075	108,943	649,282	99,010
1988r	34,090	11,675	132,963	791,221	155,890
1989p	37,336	11,688	179,147	1,078,734	185,300

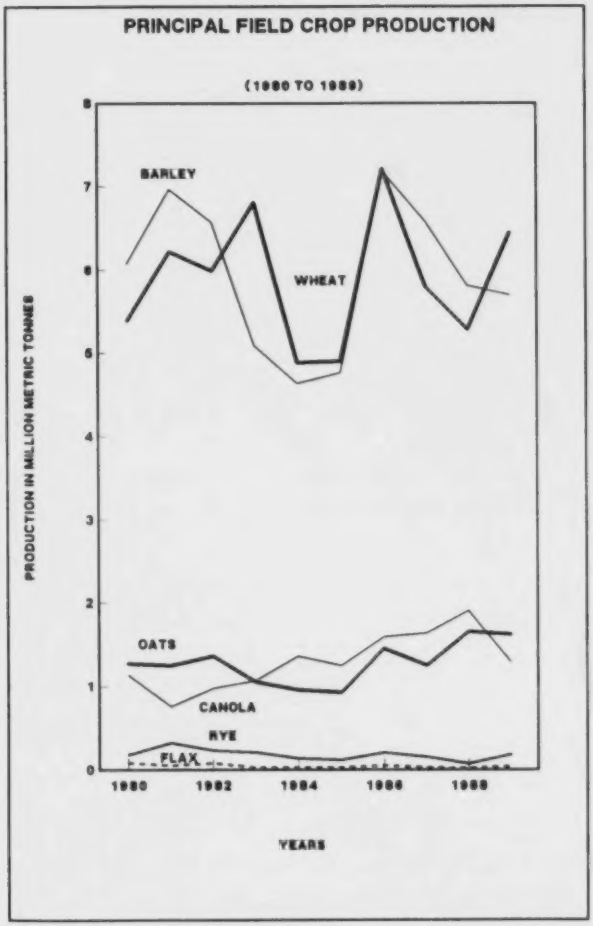
1 Includes all crop, hay and pasture, alfalfa and processing vegetables.

2 Includes farmer and Federal share, Provincial high risk subsidy and hail endorsement.

p Preliminary
r Revised

Table 14
SUMMERFALLOW AREA

Census Division	1988r	1989
	- thousand acres -	
1	579	561
2	647	615
3	120	144
4	738	709
5	847	853
6 & 15	166	159
7	497	442
8	68	55
9	7	5
10	590	486
11	140	98
12	115	96
13	157	117
14	14	11
16	27	30
17	240	215
18	47	39
19	351	315
Province	5,350	4,950


PRINCIPAL FIELD CROP PRODUCTION
(1980 TO 1988)
PRODUCTION IN MILLION METRIC TONNES
BARLEY
WHEAT
OATS
CANOLA
RYE
FLAX
0
1
2
3
4
5
6
7
8
1980
1982
1984
1986
1988
YEARS

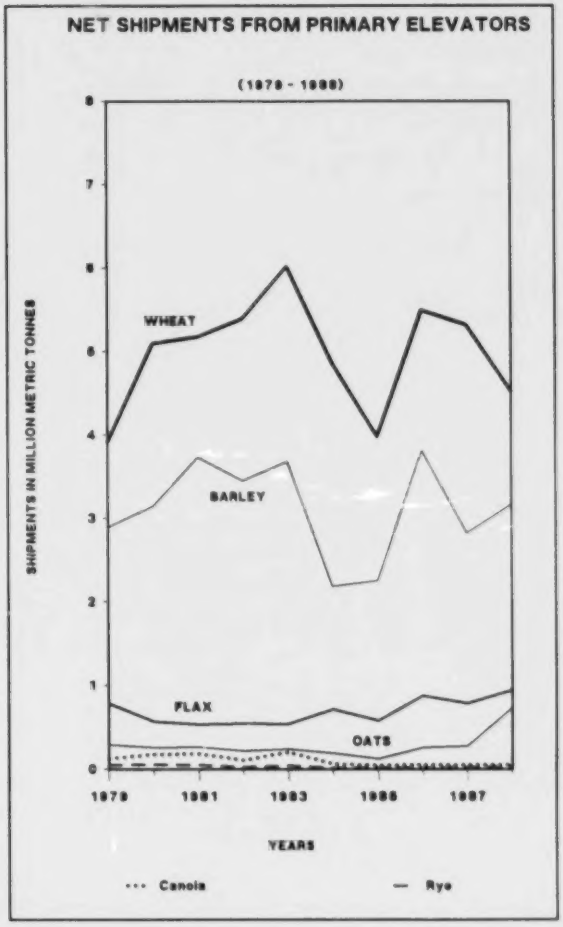

NET SHIPMENTS FROM PRIMARY ELEVATORS
(1979 - 1988)
SHIPMENTS IN MILLION METRIC TONNES
WHEAT
BARLEY
FLAX
OATS
0
1
2
3
4
5
6
7
8
1979
1981
1983
1985
1987
YEARS
Canola
Rye

Table 15
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area		Yield Per Acre		Production	
	1988r	1989	1988r	1989	1988r	1989
	- acres -		- bushels -		- tonnes -	
			ALL WHEAT			
1	710,000	688,000	15.4	25.5	298 300	477 100
2	939,000	959,000	26.7	44.1	681 000	1 152 400
3	473,000	459,000	17.8	28.7	229 600	358 800
4	663,000	710,000	8.5	12.5	153 200	242 300
5	1,175,000	1,213,000	30.0	29.4	959 200	970 100
6 & 15	279,000	285,000	34.9	37.2	265 100	288 300
7	760,000	843,000	25.6	25.3	530 300	579 600
8	101,000	102,000	47.0	48.8	129 300	135 300
9	1,000	1,000	38.0	32.0	1 000	900
10	779,000	899,000	34.9	36.5	739 200	893 200
11	123,000	162,000	49.7	44.7	166 300	197 200
12	80,000	100,000	32.4	34.5	70 500	93 700
13	76,000	101,000	45.6	41.3	94 300	113 500
14	3,000	4,000	43.0	32.3	3 500	3 500
16	6,000	8,000	36.7	32.3	6 000	7 000
17	239,000	291,000	41.5	33.0	269 700	261 600
18	52,000	69,000	41.1	32.2	58 200	60 500
19	541,000	706,000	42.8	31.7	630 300	610 000
Province	7,000,000	7,600,000	27.7	31.2	5 285 000	6 445 000

r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area* 1988r	Area* 1989	Yield Per Acre 1988r	Yield Per Acre 1989	Production 1988r	Production 1989
	- acres -		- bushels -		- tonnes-	
			OATS FOR GRAIN			
1	20,000	21,000	27.5	39.4	8 000	13 000
2	16,000	24,000	78.1	68.4	19 000	25 000
3	30,000	54,000	33.0	51.6	15 000	43 000
4	44,000	57,000	30.7	24.9	21 000	22 000
5	37,000	50,000	55.4	44.9	32 000	35 000
6 & 15	67,000	101,000	75.2	64.0	78 000	100 000
7	175,000	210,000	55.1	46.9	149 000	152 000
8	55,000	63,000	91.8	73.4	78 000	71 000
9	23,000	25,000	72.0	72.2	26 000	28 000
10	238,000	265,000	68.0	65.5	250 000	268 000
11	186,000	201,000	91.9	71.0	263 000	220 000
12	78,000	91,000	69.0	54.3	83 000	76 000
13	182,000	182,000	91.7	72.9	256 000	204 000
14	17,000	17,000	87.2	61.4	23 000	16 000
16	34,000	35,000	75.4	53.0	40 000	29 000
17	92,000	142,000	71.3	62.8	101 000	137 000
18	19,000	12,000	71.4	66.3	21 000	12 000
19	137,000	150,000	88.4	72.7	187 000	168 000
Province	1,450,000	1,700,000	73.8	61.8	1 650 000	1 619 000

* Harvested acreage
r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area*		Yield Per Acre		Production	
	1988r	1989	1988r	1989	1988r	1989
	- acres -		- bushels -		- tonnes -	
			BARLEY FOR GRAIN			
1	52,000	52,000	42.8	44.6	49 000	50 000
2	256,000	262,000	59.0	68.6	329 000	391 000
3	331,000	386,000	27.8	45.1	200 000	379 000
4	34,000	40,000	23.5	24.1	17 000	21 000
5	374,000	393,000	50.2	44.6	408 000	382 000
6 & 15	508,000	553,000	57.1	56.2	632 000	676 000
7	346,000	376,000	45.9	40.7	345 000	333 000
8	537,000	562,000	71.7	60.3	838 000	737 000
9	34,000	38,000	66.0	52.1	49 000	43 000
10	607,000	654,000	55.5	53.2	733 000	758 000
11	461,000	489,000	68.7	55.6	689 000	592 000
12	174,000	201,000	54.8	45.5	208 000	199 000
13	401,000	429,000	68.4	47.1	597 000	440 000
14	10,000	14,000	73.6	38.1	16 000	12 000
16	19,000	18,000	55.0	40.2	23 000	16 000
17	211,000	266,000	55.0	46.2	253 000	268 000
18	30,000	26,000	55.0	47.3	36 000	27 000
19	315,000	341,000	57.0	51.2	391 000	380 000
Province	4,700,000	5,100,000	56.8	51.4	5 813 000	5 704 000

* Harvested acreage
r Revised

Table 15 (cont'd)
ARRA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area		Yield Per Acre		Production	
	1988r	1989	1988r	1989	1988r	1989
	- acres -		- bushels -		- tonnes -	
			CANOLA / RAPESEED			
1	23,900	16,400	23.5	38.7	12 700	14 400
2	78,900	39,300	30.2	30.4	54 000	27 100
3	49,600	29,500	14.4	21.6	16 100	14 400
4	32,400	27,200	16.0	7.7	11 800	4 800
5	259,300	192,100	24.8	20.3	145 900	88 600
6 & 15	193,600	172,200	25.6	22.0	112 400	86 000
7	570,000	462,600	21.9	18.9	283 200	198 400
8	176,800	160,900	28.9	23.7	115 700	86 400
9	4,000	3,100	23.9	21.7	2 200	1 500
10	733,100	619,700	24.1	22.6	400 500	318 100
11	130,100	83,800	29.0	22.9	85 700	43 600
12	143,700	115,200	24.0	20.0	78 100	52 400
13	193,900	130,900	24.2	19.4	106 300	57 500
14	1,100	800	23.7	21.7	600	400
16	10,000	7,700	24.0	21.7	5 400	3 800
17	367,100	246,200	20.3	18.7	168 800	104 200
18	54,500	39,800	26.5	21.7	32 800	19 600
19	478,000	352,60	25.2	21.5	272 800	171 800
Province	3,500,000	2,700,000	24.0	21.1	1 905 000	1 293 000

r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

A.R.A.	Area		Yield Per Acre		Production	
	1988r	1989	1988r	1989	1988r	1989
	- acres -		- bushels -		- tonnes -	
			FLAXSEED			
1	7,700	15,700	26.6	22.0	5 200	8 800
2	13,100	27,800	23.6	22.7	7 800	16 000
3	2,300	3,000	17.5	19.3	1 000	1 500
4A	7,700	15,700	18.7	14.4	3 700	5 700
4B	4,500	9,200	22.7	19.3	2 600	4 500
5	1,000	2,000	22.6	17.5	600	900
6	1,000	2,000	22.6	19.6	600	1 000
7	2,700	4,600	20.1	19.2	1 400	2 200
Province	40,000	80,000	22.5	20.0	22 900	40 600
			ALL RYE			
1	35,800	56,900	8.8	17.8	8 000	25 700
2	48,400	68,100	17.9	31.8	22 000	55 000
3	24,400	46,800	21.1	35.1	13 000	41 800
4A	37,300	54,500	20.0	28.7	19 100	39 800
4B	5,700	9,400	22.8	27.8	3 300	6 600
5	3,500	5,900	26.9	36.7	2 400	5 500
6	1,800	3,000	20.9	33.2	900	2 500
7	3,100	5,400	30.7	25.9	2 400	3 600
Province	160,000	250,000	17.5	28.4	71 100	180 500

r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

A.R.A.	Area 1988r	Area 1989	Yield Per Acre 1988r	Yield Per Acre 1989	Production 1988r	Production 1989
	- acres -		TAME HAY - tons -		- tons -	
1	215,000	215,000	1.4	1.6	304 800	353 200
2	335,000	337,000	3.1	2.9	1 028 400	979 900
3	395,000	402,000	0.9	1.9	354 300	755 600
4A	213,000	223,000	0.6	1.2	124 200	255 800
4B	253.000	268,000	1.7	1.8	430 100	470 900
5	1,026,000	1,011,000	2.3	2.7	2 354 900	2 740 800
6	1,082,000	1,088,000	2.2	2.2	2 419 800	2 400 800
7	1,132,000	1,056,000	2.6	1.8	2 983 500	1 843 000
Province	4,650,000	4,600,000	2.2	2.1	10 000 000	9 800 000
	- acres -		OTHER CROPS		- tonnes -	
Winter Wheat	350,000	150,000	20.6 (bu)	32.0 (bu)	196 000	131 000
Durum Wheat	850,000	1,000,000	21.1 (bu)	30.0 (bu)	487 000	816 000
Mixed Grains	175,000	180,000	57.1 (bu)	50.0 (bu)	204 000	184 000
Fall Rye	110,000	200,000	19.1 (bu)	29.5 (bu)	53 300	150 000
Spring Rye	50,000	50,000	14.0 (bu)	24.0 (bu)	17 800	30 500
Corn for Grain(1)	10,000	9,000	100.0 (bu)	61.1 (bu)	25 400	14 000
Peas, dry (1)	120,000	110,000	35.3 (bu)	30.7 (bu)	115 300	91 900
Lentils (1)	5,000	7,000	600.0 (lbs)	930.0 (lbs)	1 400	3 000
Mustard Seed (1)	75,000	80,000	650.0 (lbs)	890.0 (lbs)	22 000	32 200
Potatoes	23,800	24,700	270.0 (cwt)	250.0 (cwt)	291 000	280 000
Sugar Beets (2)	28,100	29,500	19.2 (tonnes)	16.9 (tonnes)	540 400	499 100
Fodder Corn (1)	18,000	15,000	16.7 (tons)	15.3 (tons)	272 700	208 200

1 The 1989 estimate for these crops are from the Alberta Agriculture Specialty Crop Survey, 1989. These estimates are on a field run basis.
2 Harvested acreage
r Revised

Table 16
FARM SUPPLY AND DISPOSITION OF PRINCIPAL CROPS

	WHEAT				OATS			
	1985-86	1986-87	1987-88r	1988-89p	1985-86	1986-87	1987-88r	1988-89p
	- thousand tonnes -				- thousand tonnes -			
Opening Stocks Aug. 1	260.0	200.0	950.0	550.0	180.0	170.0	430.0	300.0
Production	4 899.0	7 212.0	5 796.0	5 285.0	925.0	1 450.0	1 249.3	1 650.0
TOTAL SUPPLY	5 159.0	7 412.0	6 746.0	5 835.0	1 105.0	1 620.0	1 679.0	1 950.0
Marketings	4 368.5	5 430.8	5 116.2	4 425.1	183.0	288.1	333.4	780.3
Seed	290.3	277.4	269.0	289.0	59.7	56.0	62.8	71.4
Carryover	200.0	950.0	550.0	220.0	170.0	430.0	300.0	250.0
Feed, Waste and Dockage(2)	300.2	753.8	810.8	900.9	692.3	845.9	983.1	848.3
TOTAL DISPOSITION	5 195.0	7 412.0	6 746.0	5 835.0	1 105.0	1 620.0	1 679.3	1 950.0

	BARLEY				CANOLA(1)			
	1985-86	1986-87	1987-88r	1988-89p	1985-86	1986-87	1987-88r	1988-89p
	- thousand tonnes -				- thousand tonnes -			
Opening Stocks Aug. 1	450.0	400.0	700.0	1 200.0	30.0	85.0	70.0	60.0
Production	4 768.0	7 185.0	6 586.7	5 813.0	1 247.0	1 588.0	1 634.0	1 905.0
TOTAL SUPPLY	5 218.0	7 585.0	7 286.7	7 013.0	1 277.0	1 673.0	1 704.0	1 965.0
Marketings	2 647.2	3 942.2	2 914.5	3 438.9	1 088.4	1 462.5	1 498.2	1 562.2
Seed	218.4	220.2	186.9	200.0	7.6	7.8	9.4	8.3
Carryover	400.0	700.0	1 200.0	600.0	85.0	70.0	60.0	190.0
Feed, Waste and Dockage(2)	1 952.4	2 722.6	2 985.3	2 774.1	96.0	132.7	136.4	210.5
TOTAL DISPOSITION	5 218.0	7 585.0	7 286.7	7 013.0	1 277.0	1 673.0	1 704.0	1 965.0

1 Alberta marketings are over estimated as Saskatchewan canola is often delivered to Lloydminster, Alberta. This can attribute to a negative Feed, Waste and Dockage value.
2 Feed, Waste and Dockage is a residual.
p Preliminary
r Revised

Table 17
STOCKS OF GRAIN ON FARMS AT JULY 31

	Wheat	Oats	Barley	Rye	Flax-seed	Canola/ Rapeseed
			- thousand tonnes -			
1965	572	355	435	20	5	N/A
1966	626	386	435	25	10	N/A
1967	1 089	463	675	18	10	9
1968	1 415	339	631	20	3	18
1969	2 313	447	1 393	25	5	4
1970	2 722	555	1 676	36	5	2
1971	1 851	478	631	46	53	2
1972	1 034	370	653	51	18	79
1973	544	339	827	18	3	2
1974	408	278	566	25	5	16
1975	354	231	479	36	13	34
1976	299	262	544	41	13	136
1977	1 334	308	631	25	5	11
1978	599	386	1 350	25	3	14
1979	1 361	355	1 393	97	5	91
1980	680	232	500	56	2	120
1981	355	230	610	20	10	170
1982	1 010	230	1 070	38	3	34
1983	500	350	1 560	60	8	15
1984	480	200	570	30	3	3
1985	260	180	450	35	7	40
1986	200	170	400	35	2	85
1987	950	430	700	60	10	70
1988r	550	300	1 200	60	5	60
1989	220	250	600	25	5	190

r Revised
N/A Data not available.

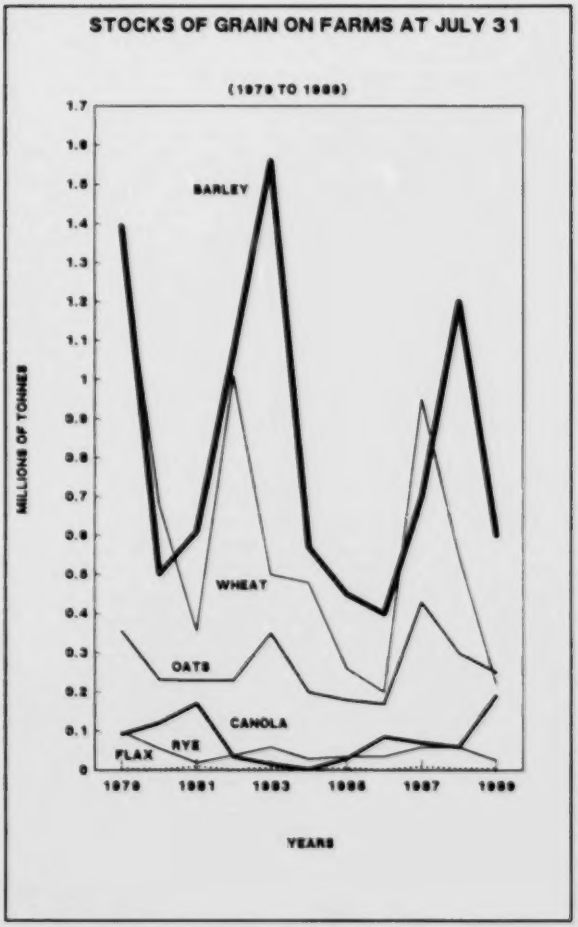


Table 18
CANADIAN WHEAT BOARD PAYMENTS, 1989-90

WHEAT(1)	Initial Payment - $/tonne -
No. 1 C.W. Red Spring (14.5%)	151.40
No. 1 C.W. Red Spring (13.5%)	149.40
No. 1 C.W. Red Spring	147.19
No. 2 C.W. Red Spring (13.5%)	142.40
No. 2 C.W. Red Spring	141.40
No. 3 C.W. Red Spring	127.40
No. 1 Canada Prairie Spring (Red)	123.40
No. 2 Canada Prairie Spring (Red)	121.40
No. 1 C.W. Utility	131.40
No. 2 C.W. Utility	114.40
Canada Western Feed	92.19
No. 1 C.W. Red Winter	126.40
No. 2 C.W. Red Winter	124.40
No. 3 C.W. Red Winter	102.19
No. 1 C.W. Soft White Spring	137.19
No. 2 C.W. Soft White Spring	134.19
No. 3 C.W. Soft White Spring	102.19
No. 1 C.W. Amber Durum	132.19
No. 2 C.W. Amber Durum	129.19
No. 3 C.W. Amber Durum	125.19

NOTE: Effective August 1, 1989 oats is no longer sold through the Canadian Wheat Board. The price series for oats is discontinued.

BARLEY(2)	Initial Payment - $/tonne -
No. 1 C.W.	80.44
No. 2 C.W.	77.44
DESIGNATED BARLEY(2)	
Special Select C.W. 2 - Row	150.44
Special Select C.W. 6 - Row	140.44
Select C.W. 2 - Row	145.44
Select C.W. 6 - Row	135.44
Sample Select C.W. 2 - Row	142.19
Sample Select C.W. 6 - Row	132.19

1 Deductions include freight at $8.11 per tonne (37.00 cents per cwt.) Calgary or Edmonton to Vancouver or Prince Rupert; estimated elevation charges of $7.65 per tonne and $2.05 per tonne for removal of dockage (Alberta Wheat Pool)

Wheat values include adjustment payments announced in October and January for all wheat except Durum.

2 Deductions include freight at $8.11 per tonne (37.00 cents per cwt.) Calgary or Edmonton to Vancouver or Prince Rupert; estimated elevation charges of $9.45 per tonne and $2.00 per tonne for removal of dockage (Alberta Wheat Pool).

Barley values include adjustments of $15.00/tonne for feed grades and $55.00/tonne for designated grades.

Table 19
CANADIAN WHEAT BOARD PAYMENTS, 1988-89

	Initial Payment	Adjust. Payment	Final Payment	Realized Payment
	- dollars per tonne -			
WHEAT(1)				
No. 1 C.W.R.S.(13.5)	136.57	35.00	22.50	194.07
No. 1 C.W.R.S.	134.36	35.00	12.14	181.50
No. 2 C.W.R.S.(13.5)	129.57	35.00	16.47	181.04
No. 2 C.W.R.S.	128.57	35.00	11.98	175.55
No. 3 C.W.R.S.	114.57	35.00	16.90	166.47
No. 1 C.P.R.S.	110.57	35.00	18.90	164.47
No. 2 C.P.R.S.	108.57	35.00	18.90	162.47
No. 1 C.W. Utility	118.57	35.00	19.67	173.24
No. 2 C.W. Utility	101.57	35.00	17.67	154.24
Canada Western Feed	94.36	35.00	16.06	145.42
No. 1 C.W.R.W.	113.57	35.00	19.90	168.47
NO. 2 C.W.R.W.	111.57	35.00	19.90	166.47
No. 3 C.W.R.W.	94.36	35.00	26.11	155.47
No. 1 C.W.S.W.S.	114.36	35.00	25.67	175.03
No. 2 C.W.S.W.S.	111.36	35.00	25.67	174.03
No. 3 C.W.S.W.S.	100.36	35.00	27.67	163.03
No. 1 C.W.A.D.	159.36	15.00	14.48	188.84
No. 2 C.W.A.D.	156.36	15.00	12.06	183.42
No. 3 C.W.A.D.	154.36	15.00	7.53	176.89
OATS(2)*				
No. 1 C.W.	146.75	-	18.90	165.65
No. 2 C.W.	144.75	-	16.40	161.15
No. 3 C.W.	141.75	-	14.40	156.15
No. 4 C.W.	136.75	-	16.40	152.15

	Initial Payment	Adjust. Payment	Final Payment	Realized Payment
	- dollars per tonne -			
DESIGNATED OATS(2)*				
No. 1 C.W.	176.75	-	-	176.75
No. 2 C.W.	172.75	-	-	172.75
No. 3 C.W.	170.75	-	-	170.75
No. 4 C.W.	166.75	-	-	166.75
BARLEY(3)				
No. 1 C.W.	102.61	-	4.23	106.84
No. 2 C.W.	99.61	-	6.54	106.15
DESIGNATED BARLEY(3)				
Spec. Sel. C.W. 2-R	190.00	15.00	17.75	205.36
Spec. Sel. C.W. 6-R	180.00	15.00	19.10	196.71
Select C.W. 2-Row	185.00	15.00	20.25	202.86
Select C.W. 6-Row	175.00	15.00	21.60	194.21
Sample Sel.C.W. 2-R	181.75	15.00	-	179.36
Sample Sel.C.W. 6-R	171.75	15.00	-	169.36

* Oat grade designations changed in 1988-89.

1 Deductions include freight at $6.55 per tonne (25.50 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $7.25 per tonne and $1.84 per tonne for removal of dockage (Alberta Wheat Pool).

2 Deductions include freight at $6.55 per tonne (25.50 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $9.00 per tonne and $2.70 per tonne for removal of dockage (Alberta Wheat Pool).

3 Deductions include freight at $6.55 per tonne (25.50 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $8.95 per tonne and $1.89 per tonne for removal of dockage (Alberta Wheat Pool).

Table 20
AVERAGE MONTHLY CASH GRAIN PRICES, 1988-89

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Year
						- dollars per tonne -							
WHEAT - Export - Canadian Wheat Board (2) - Basis in Store Pacific Coast													
1 C.W.R.S.(1) ..	269.19	273.45	266.69	267.89	263.74	265.38	263.77	267.89	262.36	262.76	244.91	235.99	261.94
2 C.W.R.S.(1) ..	263.59	267.85	261.09	262.29	258.14	259.78	258.17	262.29	256.76	257.16	239.31	230.39	256.34
3 C.W.R.S.	253.59	257.85	251.09	252.29	248.14	249.78	248.17	252.29	246.76	247.16	229.31	220.39	246.34
1 C.W.R.W.	255.59	259.85	253.09	254.29	250.14	251.70	250.17	254.29	248.76	249.16	231.31	222.39	248.34
2 C.W.R.W.	253.59	257.85	251.09	252.29	248.14	249.78	248.17	252.29	246.76	247.16	229.31	220.39	246.34
3 C.W.R.W.	250.59	254.85	248.09	249.29	245.14	246.78	245.17	249.29	243.76	244.16	226.31	217.39	243.34
1 C.W.A.D.	357.43	348.25	-	-	-	-	-	-	-	-	-	-	356.66
2 C.W.A.D.	352.43	343.25	-	-	-	-	-	-	-	-	-	-	351.66
3 C.W.A.D.	347.43	338.25	-	-	-	-	-	-	-	-	-	-	346.66
OATS - Domestic - Canadian Wheat Board (2) - Basis in Store Thunder Bay													
1 C.W.	274.18	278.19	278.00	264.43	256.50	256.50	241.75	231.50	231.50	231.50	231.50	231.50	250.29
2 C.W.	267.68	271.69	271.50	257.93	250.00	250.00	235.25	225.00	225.00	225.00	225.00	225.00	243.79
3 C.W.	263.68	267.69	267.50	253.93	246.00	246.00	231.25	221.00	221.00	221.00	221.00	221.00	239.79
4 C.W.	259.74	265.69	265.50	251.93	244.00	244.00	229.25	219.00	219.00	219.00	219.00	219.00	237.52
BARLEY - Malting - Canadian Wheat Board (2) - Basis in Store Thunder Bay													
Special Select 6-Row	322.44	324.48	317.65	313.94	290.00	284.67	278.66	277.85	276.63	250.55	228.18	249.81	284.39
Select 6-Row	319.94	321.98	315.15	311.44	285.05	282.17	276.16	275.35	274.13	248.05	225.68	247.31	281.65
Special Select 2-Row	328.44	330.48	323.65	319.94	296.00	290.67	284.66	283.85	282.63	256.55	234.18	255.81	290.39
Select 2-Row	325.94	327.98	321.15	317.44	293.50	288.17	282.16	281.35	277.10	254.05	231.68	253.31	287.64

1 13.5 per cent protein.
2 Canadian Wheat Board asking price.

Table 20 (cont'd)
AVERAGE MONTHLY CASH GRAIN PRICES, 1988-89

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Year
						- dollars per tonne -							
OATS - Winnipeg Commodity Exchange (3) - Basis in Store Thunder Bay													
1 C.W.	159.19	159.46	157.18	152.05	147.76	151.45	150.65	147.18	137.98	142.00	124.02	117.63	145.35
2 C.W.	159.19	159.46	157.18	152.05	147.76	151.45	150.65	147.18	137.98	142.00	124.02	117.63	145.35
3 C.W.	159.19	159.46	157.18	152.05	147.76	151.45	150.65	147.18	137.98	142.00	124.02	117.63	145.35
4 C.W.	155.73	156.35	153.68	148.55	144.26	147.84	147.15	143.68	133.06	137.00	119.30	112.63	141.42
BARLEY - Domestic - Winnipeg Commodity Exchange (3) - Basis in Store Thunder Bay													
1 C.W.	121.98	125.44	125.69	123.59	125.41	122.52	119.25	121.14	112.73	113.40	116.03	113.33	119.94
2 C.W.	121.03	124.44	124.69	122.59	124.41	121.52	118.25	120.14	111.73	112.40	115.03	112.33	118.95
RYE - Winnipeg Commodity Exchange (3) - Basis in Store Thunder Bay													
1 C.W.	151.87	155.73	149.15	155.30	150.95	148.17	151.40	154.29	138.02	134.30	122.47	113.28	143.58
2 C.W.	149.87	153.73	147.15	153.30	148.95	146.17	149.40	152.29	136.02	132.30	120.47	111.28	141.58
3 C.W.	121.87	125.73	118.90	123.34	121.40	118.17	121.40	124.29	108.02	104.30	92.47	83.28	113.43
FLAXSEED - Winnipeg Commodity Exchange (3) - Basis in Store Thunder Bay													
1 C.W.	392.15	443.46	418.95	380.30	389.33	406.29	403.16	401.50	375.79	355.68	331.77	338.76	385.53
2 C.W.	390.15	441.46	416.95	378.30	387.18	404.29	401.16	399.50	376.29	353.68	329.77	336.76	383.73
3 C.W.	357.15	408.93	383.95	344.63	354.28	371.29	368.16	366.50	343.29	320.68	296.77	303.76	350.72
CANOLA/RAPESEED - Winnipeg Commodity Exchange (3) - Basis in Store Pacific Coast													
1 Canada	381.19	379.83	349.68	333.82	344.35	318.40	321.73	333.29	331.44	334.85	306.10	300.49	337.03
2 Canada	368.19	366.83	336.68	320.82	331.35	305.37	308.73	320.29	318.44	321.76	293.10	287.49	324.02

3 Monthly average of Winnipeg Commodity Exchange cash quotes.

Table 21
NON-BOARD GRAIN PRICES (1), 1988-89

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Year
						- dollars per tonne -							
LETHBRIDGE													
Wheat	134.11	143.04	148.74	149.18	150.16	154.33	151.29	147.71	148.08	148.09	148.81	146.61	147.51
Oats	162.75	162.62	162.62	159.19	158.21	157.89	156.11	135.52	150.43	150.43	149.14	139.41	153.69
Barley	112.06	117.81	123.28	124.84	125.99	129.52	129.18	135.03	124.93	120.34	116.20	103.80	121.92
CALGARY													
Wheat	127.13	139.63	141.09	145.32	145.26	146.88	146.98	145.87	144.04	143.67	144.04	142.57	142.71
Oats	143.30	154.97	152.38	152.05	151.30	152.22	151.41	150.43	148.49	145.25	140.06	135.52	148.12
Barley	104.72	107.77	111.70	114.71	116.51	119.92	121.94	121.71	119.88	115.28	112.53	101.96	114.05
RED DEER													
Wheat	124.56	133.56	138.25	141.95	142.57	144.13	142.84	142.93	142.93	141.83	142.57	143.30	140.12
Oats	144.59	144.27	144.92	143.73	142.00	141.19	144.11	141.36	140.06	134.87	134.87	123.20	139.93
Barley	103.34	104.72	107.13	108.55	109.31	115.97	113.68	112.99	112.07	108.39	108.39	101.05	108.80
VERMILION													
Barley	101.96	103.11	104.48	105.63	107.15	111.95	114.82	114.83	114.37	112.99	108.85	103.80	108.66
EDMONTON													
Wheat	131.91	144.40	148.89	147.34	149.07	150.47	149.36	149.18	148.81	147.34	147.71	143.30	146.48
Oats	154.32	155.62	153.68	155.17	151.93	149.79	149.14	148.49	149.79	144.60	140.71	117.36	147.55
Barley	104.72	109.45	110.05	110.69	112.21	115.28	115.86	116.20	115.74	112.99	112.53	103.34	111.59
PEACE RIVER													
Wheat	120.15	126.03	135.14	134.48	137.67	136.96	131.76	131.91	140.35	142.93	142.93	148.45	135.73
Oats	143.94	144.92	151.60	156.14	158.00	151.41	147.76	145.89	145.89	145.89	145.89	142.00	148.28
Barley	103.34	103.25	109.13	110.46	106.86	116.78	114.12	113.91	113.45	115.28	112.53	114.37	111.12

1 Source: Alberta Grain Commission.

Table 22
MUNICIPAL CO-OPERATIVE SEED CLEANING

	1987-88	1988-89
	- bushels -	
Commercial Seed	23,457,200	24,309,133
Pedigree Seed	2,346,414	2,577,128
Total Seed	25,803,614	26,886,261
Dockage Removed	4,133,629	7,061,567
Cleaning-Total	30,385,715	33,947,328
-Average Per Plant	394,620	435,222
Treated Seed	2,445,032	2,970,571

Table 23
INTENDED AND SEEDED AREAS OF PRINCIPAL FIELD CROPS

	1988		1989	
	Intended*	Seeded	Intended*	Seeded
	- thousand acres -			
Winter Wheat	410	350	340	150
Spring Wheat	5,800	5,800	6,250	6,450
Durum Wheat	900	850	1,000	1,000
All Wheat	7,110	7,000	7,590	7,600
Oats(1)	1,900	1,850	2,000	2,100
Barley(1)	5,100	5,000	5,800	5,400
All Rye	200	160	220	250
Mixed Grain	N/A	175	N/A	180
Flaxseed	80	40	90	80
Rapeseed/Canola	3,450	3,500	2,750	2,700
Corn for Grain	N/A	10	N/A	9
Summerfallow	5,200	5,350	4,900	4,950

* Intentions at March 15.
1 Includes oats and barley for grain and for hay.

Table 24
FERTILIZER SALES*

	1987/88	1988/89
	- tonnes -	
Anhydrous Ammonia (82-0-0)	152 684	163 158
Urea (46-0-0)	237 587	285 373
Ammonium Nitrate (34-0-0)	73 371	76 287
Ammonium Sulphate (21-0-0)	42 661 (1)	56 697
Urea - Ammonium Nitrate Solutions (28-0-0)	42 137	30 728
Other Nitrogen	9 884	2 885
Monoammonium Phosphate (MAP)	249 260	284 348
Diammonium Phosphate (18-46-0)	N/A	N/A
Ammonium Phos-Sulphate (16-20-0)	16 386 (2)	7 512
Other Phosphate	21 334	6 826
10-34-0 (Solution)	N/A	N/A
Muriate of Potash (0-0-60)	39 259	38 004
All Others	2 271	228
Elemental Sulphur	N/A	N/A
TOTAL	886 834	952 046
Nutrients:		
Nitrogen (N)	315 796	346 536
Phosphate (P_2O_5)	137 369	148 954
Potash (K_2O)	24 328	23 194
Sulphur (S)	19 101	16 097
Agricultural Lime (3)	4 817	4 094

1 Ammonium Sulphate includes 21/20-0-0-24 and 19-3-0-22
2 Ammonium Phos-Sulphate includes 16/17-20-0-14/15
3 Source: Alberta Agriculture

* Source: Western Canada Fertilizer Association.

N/A Data not available.

Table 25
FORAGE SEED CROPS INSPECTED FOR PEDIGREE STATUS

	1988	1989
	- acres -	
Alfalfa	13,242	13,376
Alsike Clover	2,020	1,384
Altai Wild Ryegrass	2	198
Birdsfoot Trefoil	1,276	350
Bromegrass	7,702	8,995
Cicer Milkvetch	59	127
Creeping Red Fescue	13,635	21,971
Crested Wheatgrass	1,645	3,720
Orchardgrass	55	55
Red Clover (single cut)	458	96
Reed Canarygrass	100	312
Sainfoin	0	0
Timothy	6,966	12,833

Table 26
COMMERCIAL AND PEDIGREE FORAGE SEED PRODUCTION

	1988r	1989
	- '000 kg -	
Alfalfa	1 700	3 000
Alsike Clover	1 400	1 500
Bromegrass	1 100	1 000
Creeping Red Fescue	9 900	7 000
Crested Wheatgrass	100	435
Red Clover (single cut)	875	1 400
Sweet Clover	220	250
Timothy	6 500	3 125

r Revised

Table 27
PROCESSED ALFALFA PRODUCTION

	Production	Total Exports	Value F.O.B. Plant
	- tonnes -		-$'000-
1976-77	130 000	83 000	12,000
1977-78	166 000	87 000	13,800
1978-79	164 000	114 000	13,600
1979-80	181 000	130 000	17,900
1980-81	139 000	80 000	18,500
1981-82	122 000	68 000	13,500
1982-83	132 000	94 000	16,800
1983-84	201 000	151 000	28,600
1984-85	229 000	165 000	32,800
1985-86	166 000	128 000	22,400
1986-87	253 000	207 000	31,000
1987-88	289 000	223 000	29,500
1988-89	428 000	375 000	53,400

Table 28
TAME HAY PRODUCTION

	Area	Yield Per Acre	Production
	- '000 acres -	- kg -	- '000 tonnes -
1982	3,500	1 578	5 535
1983	3,700	1 765	6 530
1984	3,900	1 630	6 350
1985	3,900	1 185	4 625
1986	3,950	1 978	7 893
1987	4,350	1 878	8 165
1988	4,650	1 951	9 072
1989	4,600	1 932	8 890

Table 29
DRY BEAN PRODUCTION (1)

	Area	Yield Per Acre	Production
	- acres -	- kilograms -	- tonnes -
1983	3,000	726	2 182
1984	4,750	862	4 102
1985	7,700	862	6 650
1986	11,620	871	10 141
1987	22,600	767	17 345
1988r	23,000	958	22 034
1989p	23,500	544	12 791

1 Source: Alberta Agriculture Specialty Crop Historical Series.

Note: These estimates are on a field run basis and have not been adjusted for dockage.

Table 30
SUGAR BEET INDUSTRY

		1987r	1988r	1989
Contracted	ac.	29,983	29,575	30,619
Planted	ac.	29,438	28,945	29,632
Harvested	ac.	29,169	28,109	29,483
Production	tonnes	564 814	540 405	499 061
Average Yield	kg/ac.	19 360	19 220	16 930
Market Price (beets)	$/tonne	30.52	37.33	44.50 (e)
Sugar Content (2)	%	18.8	18.2	17.4
Sugar Produced	kg/tonne	137.9	133.4	128.2
Sugar Produced	kg/ac.	2 670	2 566	2 169

2 Factory sugar content (%).
(e) Estimate.

Table 31
COMMERCIAL VEGETABLE PRODUCTION

	Area (3)		Production	
	1988r	1989	1988r	1989p
	- acres -		- tonnes -	
Cabbage	881	538	7 641	5 546
Carrots	978	985	5 347	5 614
Corn, fresh	2,573	3,230	13 478	15 308
Cucumbers	215	160	301	534
Onions	238	220	2 732	2 400
Rutabagas	142	131	1 271	1 185
Peas	2,244	2,930	2 836	4 400

3 Harvested acreage

r Revised
p Preliminary

LIVESTOCK INDUSTRY

INTRODUCTION

The cool weather early in the 1989 growing season delayed pasture and forage crop growth. June rains and warmer temperatures improved forage growth, but southern and eastern areas continued to require more rain. July was hot and dry in the south, and pastures deteriorated until August when rains alleviated the drought stress in most areas. Generally cattle remained in good condition throughout the year.

Hay quality was variable as a result of substaintial rain during the haying season. Continuing wet weather during the grain harvest resulted in a higher than normal proportion of cereal grains being of feed quality. Thus, there were ample supplies of feed grains in the province in 1989 helping to boost interest in livestock feeding.

CATTLE

On July 1, 1989 there were an estimated 4,190,000 head of cattle and calves on farms, a 4.4 per cent increase from one year earlier. Replacement heifers showed the largest increase in numbers at 12 per cent, while slaughter heifers decreased by five per cent. Beef cows and total calves are increased in numbers. The dairy herd population remained stable.

Slaughter in Alberta increased by five per cent between 1988 and 1989. The new Cargill packing plant in High River began operations in June, adding significantly to the provincial kill capacity.

Production of slaughter cattle in Alberta increased by 6.9 per cent over the past year. The largest increase of almost 18 per cent was in slaughter cows, as producers marketed older cows which had been kept back a few extra years to take full benefit of the strong feeder calf market. Slaughter heifer production was up just over four per cent, and steers up almost six per cent.

The strength of Alberta's cattle feeding industry is shown by the eight per cent decline in out-of-province shipments of feeders and over eight per cent increase in feeder imports from Saskatchewan. This is partially the result of the Crow Benefit Offset Program. Feeder shipments to Ontario declined for the fourth consecutive year, and by the largest per cent ever. However, a very large increase in the number of feeder exports to the U.S.A. partially counteracted the drop in domestic shipments. The U.S.A. is in a herd expansion phase, and they likely will continue to draw cattle from Alberta over the next few years.

Total out-of-province shipments of replacement cattle dropped by 20 per cent from 1988 levels. International exports have increased by 30 per cent, while the inter-provincial shipments have declined by 35 per cent. Once again the expansion of the beef herd in Alberta and the U.S.A. is evident.

The high Canadian dollar in 1989 largely counteracted the record high prices for cattle in the U.S.A. and limited the benefit to Alberta's cattle producers from the high prices in the U.S.A.. However, this coupled with the very high local demand for slaughter animals due to the increased competition caused by the expansion in the slaughter industry worked to push fed cattle prices higher in 1989 than in 1988, especially late in the year.

Feeder cattle and calf prices remained higher in the south than in the north. American demand and the large number of feedlots in the south both work to enhance the market prices closer to the U.S.A. - Canada border. Feeder prices dropped in 1989 as a result of high interest rates, a strong Canadian dollar and the large

seven per cent increase in the 1989 calf crop. However, these first two factors caused higher demand and more stable prices for heavier feeders, which did not decline in price from 1988 levels as much as did the lighter feeders.

HOGS

Prices for hogs improved greatly in the second half of 1989, largely due to a strong U.S.A. market. The annual price for Index 100 hogs in 1988 exceeded the 1989 price, while the dressed sow price for 1989 exceeded the 1988 price. However, the mid - 1988 to mid - 1989 prices were amongst the worst prices for hogs since the 1970's.

The number of hogs on farms increased relative to 1988, at a decreasing rate for each quarter in 1989 until the October 1989 inventory at which time inventories leveled out to equal 1988 levels. The Canadian hog population started to decline in June 1989 and continued to contract for the remainder of the year. This indicates the population peak of the Candian hog cycle has passed, thus numbers should continue to decline for the next while.

Federally and provincially inspected hog slaughter in Alberta increased by over 2.5 per cent from 1988 to 1989. Hogs of Alberta origin slaughtered within Canada saw an increase in numbers of less than two per cent while international exports, through the Alberta Pork Producers Development Corporation, increased 15 per cent. In total, production of slaughter hogs increased by four per cent between 1988 and 1989.

The year 1989 saw drastic changes, and problems in the pork processing industry. Fletchers was closed by a labor dispute for most of the first quarter in 1989, causing record hog exports. On October 6, 1989, after Gainers Inc. defaulted on financial obligations to the government, the provincial government seized control of the company, one of the two federally inspected pork processing operations in the province. Since that time the government has put Gainers up for sale.

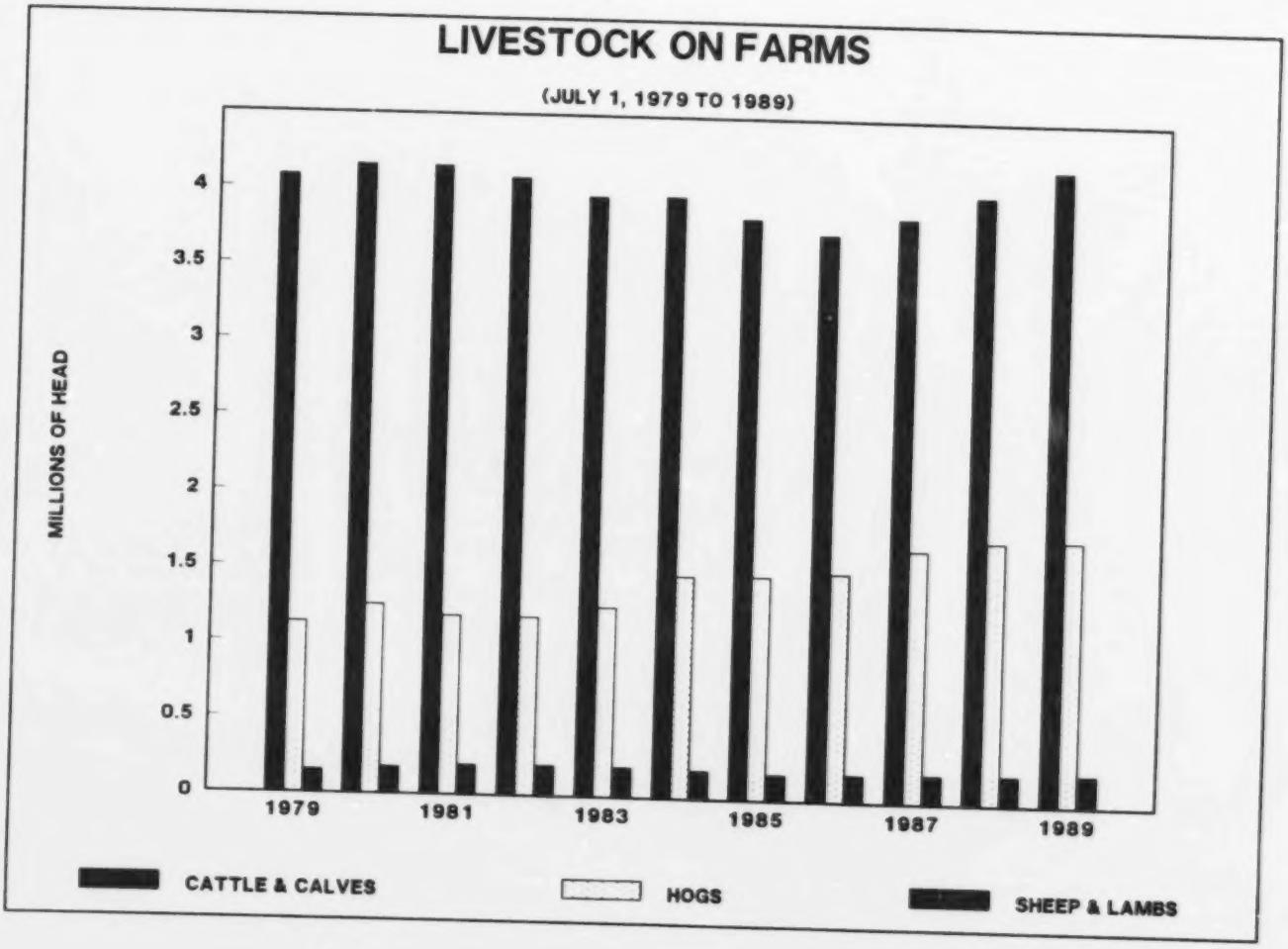
The other major news in the industry in 1989 was the imposition of a countervailing duty of 7.7 cents per kilogram on Canadian pork exports to the U.S.A., May 8, 1989. The countervailing duty was set at 7.9 cents per kilogram, effective July 24. This caused increased exports of live hogs to the U.S.A., and decreased pork exports to the U.S.A..

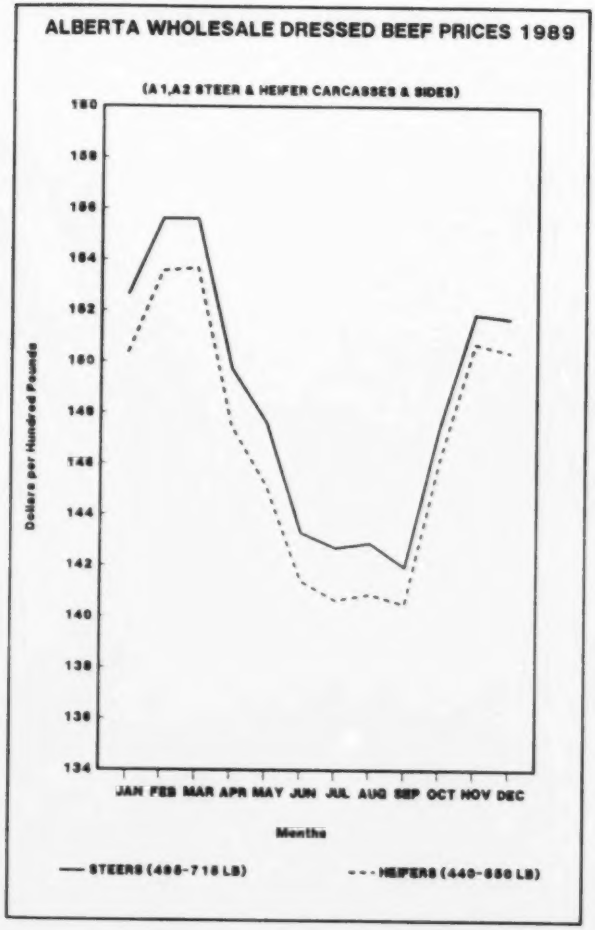
SHEEP

Alberta's sheep flock increased a very substantial seven per cent from July 1, 1988. The breeding flock increase was larger than that of the lamb flock, indicating a continued trend of herd expansion.

The number of sheep and lambs of Alberta origin slaughtered in Canada increased by 22 per cent over 1988 levels. However, slaughter animal exports to the U.S.A. decreased by 46 per cent, resulting in total production increasing by only 13 per cent. Inspected slaughter within Alberta also increased, but only by ten per cent. The rate of increase of inspected slaughter over 1988 peaked in the second quarter, and since has increased above 1988 levels at a decreasing rate.

Lamb and sheep prices fell significantly in 1989 from 1988 levels. Finished lamb prices dropped throughout 1989, unlike 1988 which saw prices bottom out in June and then climb for the second half. The annual average price for A and B 80-100 pound lambs fell over three per cent between 1988 and 1989. Feeder lambs saw the largest drop in price, at ten per cent. D1,2 sheep were the only class to not decline in value in 1989 but remained relatively stable in price on an annual basis with 1988.


LIVESTOCK ON FARMS
(JULY 1, 1979 TO 1989)
MILLIONS OF HEAD
4
3.5
3
2.5
2
1.5
1
0.5
0
1979
1981
1983
1985
1987
1989
CATTLE & CALVES
HOGS
SHEEP & LAMBS


ALBERTA WHOLESALE DRESSED BEEF PRICES 1989
(A1,A2 STEER & HEIFER CARCASSES & SIDES)
Dollars per Hundred Pounds
160
158
156
154
152
150
148
146
144
142
140
138
136
134
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
Months
STEERS (498-718 LB)
HEIFERS (440-658 LB)

ALBERTA WHOLESALE DRESSED BEEF PRICES
(A1,A2 STEER CARCASSES & SIDES)
Dollars per Hundred Pounds
157
156
155
154
153
152
151
150
149
148
147
146
145
144
143
142
141
140
139
138
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
Months
1988
1989
1984-88

Table 32
ALBERTA DIRECT TO PACKER SALES

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
						1988							
Steers - Live Sales:													
No. Sold	16,642	12,369	12,583	21,359	27,229	28,343	19,564	22,857	27,136	16,545	20,280	18,814	243,721
Price ($/100 lbs)	78.14	82.02	84.77	86.10	84.55	78.62	75.97	76.91	78.37	82.22	80.64	77.58	80.33
Heifers - Live Sales:													
No. Sold	9,328	7,611	7,904	8,503	10,057	7,315	8,221	7,957	10,059	7,669	8,369	9,551	102,544
Price ($/100 lbs)	75.04	78.90	81.96	83.95	81.82	76.86	74.74	75.64	77.50	80.45	78.52	75.56	78.39
Steers - Railgrade:													
No. Sold	2,821	2,048	5,793	11,314	7,689	5,096	6,704	2,952	3,813	1,472	5,853	5,312	60,867
Price ($/100 lbs)	137.07	142.23	146.85	147.97	144.01	134.68	131.15	133.23	136.63	142.39	141.32	136.68	140.52
Heifers - Railgrade:													
No. Sold	2,819	2,411	1,818	2,064	1,903	1,718	1,022	1,201	2,569	697	1,412	3,003	22,637
Price ($/100 lbs)	135.29	142.04	143.37	148.36	142.32	136.04	131.19	132.63	136.66	143.37	139.96	133.94	138.69
						1989							
Steers - Lives Sales:													
No. Sold	11,879	11,271	15,954	24,438	37,728	34,741	33,931	32,004	43,566	24,912	26,506	31,285	328,215
Price ($/100 lbs)	83.23	85.85	87.06	83.78	81.36	77.97	78.53	80.01	79.00	81.73	83.29	83.76	81.36
Heifers - Live Sales:													
No. Sold	5,692	4,684	8,473	12,519	12,999	10,650	9,929	8,088	11,774	10,622	10,025	11,203	116,658
Price ($/100 lbs)	79.70	80.88	84.43	81.37	79.59	76.37	77.24	79.36	79.07	81.28	81.16	81.09	80.06
Steers - Railgrade:													
No. Sold	1,444	1,659	7,195	9,016	10,904	4,557	3,869	3,139	3,645	3,575	4,090	2,876	55,969
Price ($/100 lbs)	147.64	151.16	151.01	141.27	138.54	133.52	135.16	138.13	136.21	141.96	144.93	146.85	141.49
Heifers - Railgrade:													
No. Sold	1,566	2,366	3,158	2,892	1,305	1,201	1,004	883	1,866	1,509	2,323	3,505	23,579
Price ($/100 lbs)	143.02	146.51	149.47	142.26	137.72	132.45	134.79	137.49	137.62	142.29	143.09	143.97	142.42

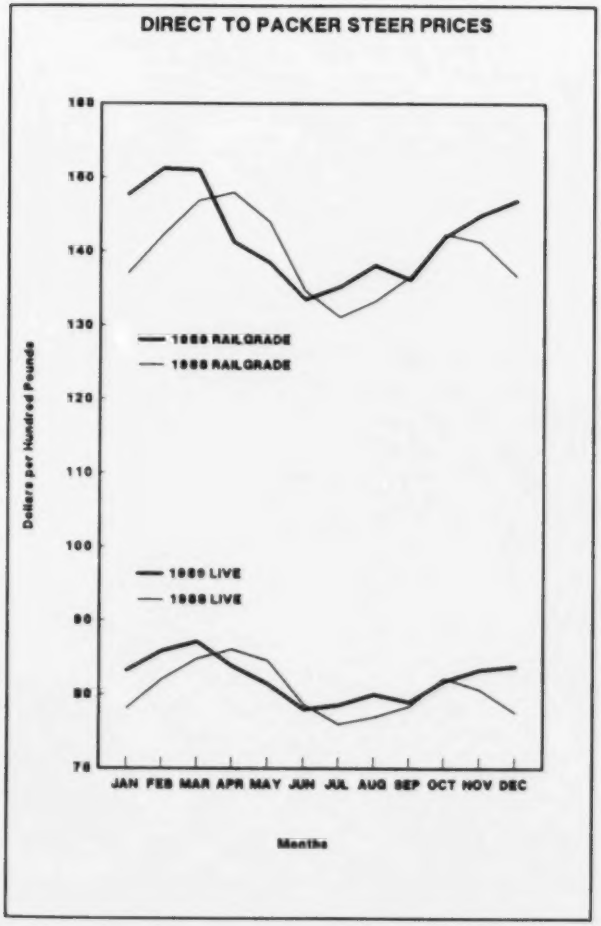


Table 33
SUPPLY AND DISPOSITION BALANCE SHEETS
JULY 1, 1988 TO JUNE 30, 1989

	Cattle & Calves	Pigs	Sheep & Lambs
	- thousands of head -		
Beginning Inventory	4,030.0	1,735.0	198.0
Births(1)	1,522.5	2,572.3	135.2
Interprovincial Imports(2)	405.9	0.0	0.0
International Imports	0.0	0.0	20.5
TOTAL SUPPLY	5,958.4	4,307.3	353.7
Interprovincial Exports(2)	111.0	0.0	3.0
International Exports	235.0	574.4	15.4
Inspected Slaughter(3)	1,234.6	1,783.0	78.2
All Other Slaughter	29.2	98.7	19.5
Deaths(4)	158.6	91.2	25.6
TOTAL DISPOSITION	1,768.4	2,547.3	141.7
ENDING INVENTORY(5)	4,190.0	1,760.0	212.0

1 For pigs, births have been adjusted for peri-natal mortality.
2 Interprovincial imports and exports of feeder animals only.
3 Animals slaughtered in federally and provincially inspected plants adjusted for interprovincial movements.
4 Deaths include on-farm mortality and condemnations at slaughter.
5 Total supply less total disposition.

Table 34
CATTLE AND CALVES ON FARMS, JULY 1

1988r

Census Division	Bulls	Milk Cows	Dairy Heifers	Beef Cows	Beef Heifers For Breeding	Calves	Heifers For Slaughter	Steers	Total
					- thousands -				
1	4.7	2.4	1.2	66.0	15.0	60.0	9.8	16.0	175.1
2	6.0	14.8	6.3	100.0	15.0	105.5	58.6	112.0	418.2
3	6.3	6.5	2.4	98.5	21.3	90.5	21.8	38.8	286.1
4	6.5	1.3	0.4	104.0	22.0	98.0	10.4	13.7	256.3
5	5.3	4.0	1.5	64.5	10.5	63.5	16.4	33.6	199.3
6 & 15	9.4	7.8	4.5	116.0	24.7	112.5	30.2	39.0	344.1
7	9.2	5.0	1.8	131.0	22.7	125.5	21.9	43.5	360.6
8 & 9	9.5	18.2	8.5	152.0	28.5	158.5	40.0	62.0	477.2
10	8.6	14.1	4.8	132.0	26.5	130.5	16.0	35.3	367.8
11	7.0	30.7	12.5	106.0	30.0	115.5	15.8	32.0	349.5
12 & 16	4.0	3.8	1.2	71.0	13.8	62.5	6.2	15.5	178.0
13 & 14	8.4	11.2	5.2	156.5	31.0	149.0	20.3	36.8	418.4
17,18,19	5.1	4.2	1.7	77.0	19.0	73.5	6.6	11.8	199.4
Province	90.0	124.0	52.0	1,375.0	280.0	1,345.0	274.0	490.0	4,030.0

Note: These inventory estimates are subject to revision.

Table 34 (cont'd)
CATTLE AND CALVES ON FARMS, JULY 1

1989

Census Division	Bulls	Milk Cows	Dairy Heifers	Beef Cows	Beef Heifers For Breeding	Calves	Heifers For Slaughter	Steers	Total	1989 as % 1988
					- thousands -					- % -
1	4.6	2.3	1.4	65.0	14.7	63.5	10.2	14.3	176.0	100.5
2	5.7	15.5	7.3	97.2	18.5	105.0	59.0	95.4	403.6	96.5
3	6.5	6.2	2.7	104.5	21.3	100.3	21.5	33.7	296.7	103.7
4	6.5	1.3	0.3	108.2	23.0	104.1	12.0	14.5	269.9	105.3
5	5.5	4.0	1.8	67.9	10.4	68.5	17.8	35.7	211.6	106.2
6 & 15	9.2	7.8	4.3	124.0	26.0	122.5	25.3	35.2	354.3	103.0
7	9.2	4.6	1.7	132.9	23.4	128.5	17.6	41.4	359.3	99.6
8 & 9	9.3	18.9	8.0	155.2	35.2	164.5	34.2	68.3	493.6	103.4
10	8.8	12.8	4.5	142.1	32.7	142.5	12.4	38.7	394.5	107.3
11	7.6	30.8	11.8	118.7	31.5	131.2	17.2	27.7	376.5	107.7
12 & 16	4.2	3.2	1.2	78.4	17.1	71.6	6.4	16.6	198.7	111.6
13 & 14	8.5	11.3	6.0	162.3	38.5	157.5	21.4	35.5	441.0	105.4
17, 18, 19	5.4	4.3	2.0	83.6	20.7	80.3	5.0	13.0	214.3	107.5
Province	91.0	123.0	53.0	1,440.0	313.0	1,440.0	260.0	470.0	4,190.0	104.0

Note: These inventory estimates are subject to revision.

Table 35
SLAUGHTER CATTLE AND CALF MARKETINGS

1988

Month	Steer	Heifers	Cows	Bulls	Total Cattle	Calves	Total Cattle & Calves
			- number of head -				
January	44,107	32,172	15,446	606	92,331	528	92,859
February	43,816	32,383	15,325	447	91,971	460	92,431
March	49,375	31,373	14,052	593	95,393	534	95,927
April	54,283	29,650	13,005	879	97,817	546	98,363
May	55,324	31,292	13,284	854	100,754	507	101,261
June	74,286	35,937	15,856	1,193	127,272	574	127,846
July	60,351	28,636	9,454	1,253	99,694	405	100,099
August	52,735	27,371	9,045	1,213	90,364	448	90,812
September	70,589	34,897	12,008	1,650	119,144	642	119,786
October	50,481	24,343	15,368	753	90,945	644	91,589
November	47,468	25,683	20,867	936	94,954	533	95,487
December	54,351	32,098	21,668	830	108,947	539	109,486
Total	657,166	365,835	175,378	11,207	1,209,586	6,360	1,215,946

Note: These data represent cattle and calves of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 35 (cont'd)
SLAUGHTER CATTLE AND CALF MARKETINGS

1989

Month	Steer	Heifers	Cows	Bulls	Total Cattle	Calves	Total Cattle & Calves
			- number of head -				
January	41,198	29,039	17,395	700	88,332	593	88,925
February	36,739	30,440	16,212	662	84,053	553	84,606
March	53,322	33,326	19,143	970	106,761	590	107,351
April	57,618	29,214	17,095	1,050	104,977	404	105,381
May	61,549	27,334	14,791	1,084	104,758	437	105,195
June	80,811	32,788	20,114	1,625	135,338	572	135,910
July	68,670	27,145	12,193	1,060	109,068	373	109,441
August	65,664	28,624	10,359	837	105,484	321	105,805
September	79,920	36,928	14,909	1,281	133,038	714	133,752
October	59,323	30,251	17,592	808	107,974	538	108,512
November	56,240	33,910	22,730	969	113,849	532	114,381
December	61,978	38,524	31,353	962	132,817	638	133,455
Total	723,032	377,532	213,886	12,008	1,326,449	6,265	1,332,714

Note: These data represent cattle and calves of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 36
AVERAGE MONTHLY CATTLE PRICES, EDMONTON + NORTH

1988

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Cows													
D1,2	57.21	55.65	57.00	55.88	56.04	53.09	54.49	55.42	53.91	52.67	52.36	52.32	54.77
D3	51.17	51.41	51.12	50.22	50.76	45.28	50.23	48.48	48.17	46.78	45.47	45.15	48.76
D4	48.09	46.43	50.11	48.10	47.73	45.40	49.00	44.56	46.80	44.20	40.73	40.08	45.63
Bulls	72.96	74.83	74.62	74.60	74.17	73.14	71.78	66.98	68.43	67.01	65.22	64.97	70.79
Feeders:													
Steers													
+900 lbs	90.41	91.56	86.64	87.06	85.98	85.16	82.96	84.22	84.68	84.75	84.49	85.81	85.71
800-900 lbs	99.39	99.20	93.18	91.32	91.68	92.30	88.60	88.01	88.80	88.54	91.13	91.89	92.01
700-800 lbs	107.87	102.79	99.28	99.62	96.00	97.03	97.06	98.13	94.49	95.27	96.16	97.74	99.24
600-700 lbs	115.23	109.49	110.03	109.61	101.60	103.65	103.40	101.71	99.45	98.22	100.43	100.17	104.52
Off Type													
+600 lbs ..	82.36	86.72	75.00	76.22	-	71.87	107.20	70.00	72.39	77.60	80.19	79.97	77.74
Heifers													
+800 lbs ..	83.75	84.08	82.85	85.70	80.06	81.60	82.09	81.86	81.67	80.95	76.11	78.99	81.11
700-800 lbs	89.42	89.01	93.09	90.91	84.08	85.18	87.40	86.95	85.09	83.65	83.08	86.29	87.39
600-700 lbs	102.98	99.50	95.91	96.41	87.54	93.29	90.12	92.91	87.40	87.97	89.90	89.91	92.70
500-600 lbs	109.22	106.75	102.46	99.08	91.62	93.00	97.21	92.21	93.04	92.05	95.05	98.19	96.79
Off Type													
+500 lbs ..	-	80.00	74.00	75.18	-	69.40	-	71.90	69.99	72.14	71.05	70.97	72.66
Cows	64.13	55.63	60.83	54.80	69.64	57.02	60.75	55.26	60.81	55.81	54.67	54.52	56.48

NOTE: Due to the limited data available, the price series for slaughter steers and heifers in the Edmonton and North public stockyards has been discontinued.

Table 36 (cont'd)
AVERAGE MONTHLY CATTLE PRICES, EDMONTON + NORTH

1989

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Cows													
D1,2	53.28	53.12	53.84	53.90	54.30	56.48	58.83	59.79	57.37	55.95	51.26	52.77	55.12
D3,5	47.82	48.29	48.23	46.13	47.31	49.18	50.05	52.40	52.26	48.25	44.98	44.09	47.98
D4	47.20	48.00	48.52	46.60	44.32	47.14	48.90	51.39	51.83	44.00	41.11	42.13	47.30
Bulls	68.89	68.36	70.44	67.73	64.80	67.55	68.21	69.62	68.38	66.59	64.52	61.99	67.26
Feeders:													
Steers													
+900 lbs	86.36	86.80	86.02	82.72	81.34	83.33	86.64	86.40	83.47	86.14	85.18	85.40	84.82
800-900 lbs	94.38	90.95	90.01	85.43	85.53	87.74	91.77	92.05	89.82	90.70	90.78	90.73	89.77
700-800 lbs	97.55	93.10	91.87	87.92	88.48	91.75	93.25	95.02	93.53	96.90	95.10	93.70	93.04
600-700 lbs	100.70	96.11	95.30	93.51	96.41	101.65	98.27	95.69	98.42	99.26	96.14	94.79	97.18
Off Type													
+600 lbs	79.95	77.80	78.08	78.68	66.86	65.90	73.56	-	79.60	76.82	76.17	75.41	72.93
Heifers													
+800 lbs	80.02	82.07	82.28	75.27	77.20	77.71	83.92	81.86	81.05	80.98	79.39	80.69	79.91
700-800 lbs	88.95	85.89	83.63	81.34	79.18	82.64	86.55	85.55	87.38	85.85	84.48	84.40	84.34
600-700 lbs	91.99	87.33	85.32	82.76	83.91	86.92	88.75	88.09	86.52	90.93	90.73	89.47	87.66
500-600 lbs	95.75	90.52	86.89	86.61	87.09	90.35	90.48	89.97	89.29	91.67	92.13	94.41	91.32
Off Type													
+500 lbs	73.33	69.33	71.64	68.87	70.16	68.50	-	-	73.54	73.53	71.35	70.55	71.49
Cows	60.80	-	67.17	56.47	57.55	53.26	64.90	63.29	60.92	60.98	61.96	57.87	59.84

NOTE: Due to the limited data available the price series for slaughter steers and heifers in the Edmonton and North public stockyards has been discontinued.

Table 37
AVERAGE MONTHLY CATTLE PRICES, CALGARY + SOUTH

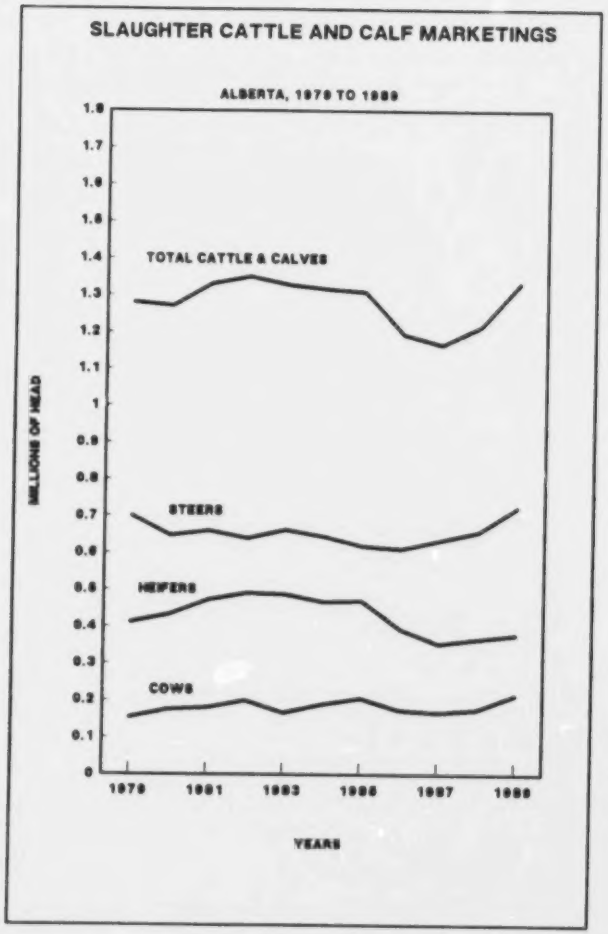
1988

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Steers													
A1,2 +1000 lbs	76.00	78.64	81.37	82.32	81.35	79.11	76.37	76.40	77.51	80.08	-	-	79.00
A1,2 -1000 lbs	-	75.50	77.00	-	-	-	76.00	72.00	77.50	-	-	-	76.42
A3,4	73.92	74.00	76.38	78.45	80.95	72.00	71.75	71.83	74.25	76.20	-	-	75.18
B & C.....	70.04	71.57	71.15	76.71	69.50	66.74	67.20	65.18	69.16	74.75	70.75	-	70.07
Heifers													
A1,2 +850 lbs	74.59	77.96	80.86	80.88	79.21	77.94	73.41	75.61	77.19	78.78	80.06	-	77.68
A1,2 -850 lbs	73.50	73.00	-	-	79.25	-	-	-	75.50	-	-	-	74.98
A3,4	71.90	73.67	78.00	76.64	75.97	72.50	71.50	73.10	73.21	75.58	77.50	-	74.38
B & C.....	63.44	66.09	68.63	69.01	68.49	67.90	66.25	64.60	65.83	62.48	64.59	62.45	66.39
Cows													
D1,2	57.44	57.91	59.25	58.74	59.24	57.59	57.66	58.76	55.91	54.30	52.33	52.28	56.65
D3	52.79	53.37	54.35	53.28	54.45	51.94	54.31	53.37	50.55	48.71	46.26	45.63	50.95
D4	-	-	58.00	-	50.50	48.25	-	48.25	45.38	42.52	43.17	41.08	47.98
Bulls	72.88	74.64	76.01	73.17	70.02	70.26	69.54	70.09	68.84	66.37	63.60	62.83	69.57
Feeders:													
Steers													
+900 lbs ..	85.88	95.08	88.70	91.19	91.72	83.96	86.96	93.10	88.94	89.05	88.02	90.00	89.31
800-900 lbs	100.17	99.06	97.49	96.69	94.38	94.83	92.69	94.70	93.94	93.23	94.54	92.92	94.67
700-800 lbs	104.66	102.45	102.41	98.71	96.17	96.25	98.37	102.52	97.15	99.81	100.88	99.36	100.48
600-700 lbs	108.87	105.98	112.02	106.00	104.23	99.13	105.84	101.90	105.75	106.50	107.00	102.53	106.80
Off Type													
+600 lbs ..	82.66	87.66	86.72	84.67	80.61	79.60	80.13	79.74	82.94	84.40	78.49	78.38	82.12
Heifers													
+800 lbs	85.82	86.50	89.82	91.74	87.61	85.85	90.97	85.50	87.02	84.91	86.40	83.91	87.30
700-800 lbs	96.12	95.87	96.02	93.45	90.23	93.01	92.15	87.78	90.37	90.61	92.98	88.38	91.76
600-700 lbs	104.22	103.09	97.80	99.05	90.97	94.81	91.65	93.44	97.37	97.38	96.69	93.91	97.78
500-600 lbs	109.39	107.57	104.67	107.92	103.24	90.92	93.71	98.36	101.04	98.91	100.05	98.26	101.34
Off Type													
+500 lbs ..	76.25	81.88	78.33	79.25	78.40	77.75	78.34	76.27	77.95	82.83	72.38	72.56	77.66
Cows	58.70	58.97	55.63	59.16	58.26	55.20	65.00	54.13	53.82	55.59	48.26	54.08	55.10

Table 37 (cont'd)
AVERAGE MONTHLY CATTLE PRICES, CALGARY + SOUTH

1989

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Steers													
A1,2 +1000 lbs	79.75	84.17	85.60	81.25	84.75	76.25	78.37	79.80	78.14	80.50	83.00	-	80.58
A1,2 -1000 lbs	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	-	82.75	79.25	-	72.50	76.25	-	-	-	-	80.00	81.17	-
B & C	66.25	71.28	69.00	78.36	66.91	70.40	69.34	66.20	73.73	68.83	-	69.65	70.32
Heifers													
A1,2 +850 lbs	78.38	82.08	84.86	-	81.76	75.62	77.50	77.83	77.04	78.86	80.25	-	78.62
A1,2 -850 lbs	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	75.50	78.75	-	80.75	-	73.60	75.50	72.50	75.25	-	-	-	-
B & C	64.09	67.39	68.51	66.44	69.13	67.47	67.82	67.79	67.11	70.50	70.54	66.96	67.64
Cows													
D1,2	53.78	57.15	57.71	56.79	57.31	57.59	59.81	59.94	60.49	56.37	51.29	54.91	56.54
D3	48.84	51.60	51.32	51.04	52.03	52.21	54.82	54.85	54.56	51.76	45.98	49.80	51.09
D4	40.16	45.50	44.50	45.31	46.40	41.43	49.00	57.5	47.20	48.25	40.17	40.25	44.96
Bulls	67.07	67.50	68.45	65.55	66.19	67.19	68.14	70.09	68.03	68.05	60.42	62.41	66.77
Feeders:													
Steers													
+900 lbs ..	89.08	90.56	86.75	82.75	85.25	84.76	91.75	93.57	91.55	89.58	88.56	88.75	89.49
800-900 lbs	93.71	97.20	89.32	88.48	86.82	89.18	93.92	94.20	93.15	93.01	94.05	90.95	92.81
700-800 lbs	97.59	96.43	94.11	92.54	93.12	96.10	99.28	96.37	94.21	99.40	97.51	94.42	95.98
600-700 lbs	100.43	103.23	98.71	101.14	99.73	100.46	104.86	97.94	100.78	105.00	102.23	100.07	102.71
Off Type													
+600 lbs	79.95	76.79	78.38	76.18	74.47	77.99	77.41	81.38	77.66	80.38	78.97	79.48	78.15
Heifers													
+800 lbs	84.82	84.69	84.21	82.97	84.00	84.03	87.94	91.79	88.52	90.37	81.72	84.59	87.15
700-800 lbs	93.21	90.33	88.86	87.82	84.64	85.83	91.09	90.97	90.82	91.60	89.08	90.31	89.64
600-700 lbs	96.04	93.85	92.16	92.75	88.23	88.73	94.00	93.62	90.70	96.24	94.49	93.81	93.40
500-600 lbs	96.64	99.22	96.37	95.99	91.19	90.66	98.50	94.90	98.55	98.48	96.95	93.84	97.43
Off Type													
+500 lbs	69.84	74.85	72.03	72.54	70.76	68.59	75.32	69.38	72.43	78.53	79.96	74.08	74.12
Cows	51.09	54.08	54.84	52.52	54.73	56.98	55.88	55.80	57.36	54.88	52.27	55.87	53.94


SLAUGHTER CATTLE AND CALF MARKETINGS
ALBERTA, 1979 TO 1989
MILLIONS OF HEAD
TOTAL CATTLE & CALVES
STEERS
HEIFERS
COWS
YEARS

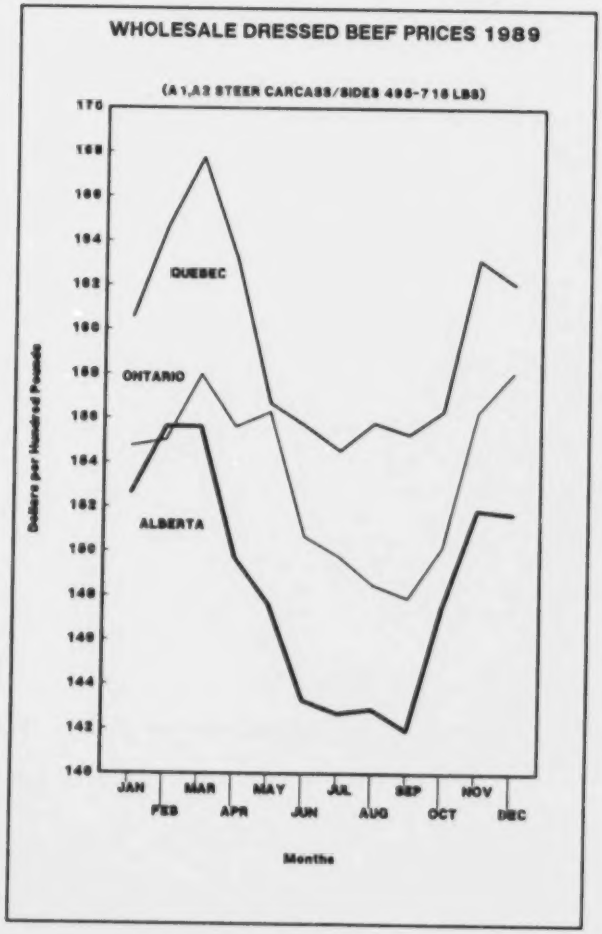

WHOLESALE DRESSED BEEF PRICES 1989
(A1,A2 STEER CARCASS/SIDES 495-715 LBS)
Dollars per Hundred Pounds
QUEBEC
ONTARIO
ALBERTA
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Months

Table 38
AVERAGE MONTHLY CALF PRICES, CALGARY + SOUTH

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
1988													
Feeders:													
Steer Calves													
500-600 lbs	120.70	116.66	118.61	116.33	113.94	-	106.33	113.75	109.78	109.26	109.84	109.48	110.34
400-500 lbs	128.09	126.06	126.03	120.24	126.68	112.00	129.41	116.57	117.39	113.64	114.60	112.45	115.24
-400 lbs	128.36	126.00	126.25	131.67	127.00	139.00	125.77	128.13	124.65	118.66	120.28	120.35	121.77
Off Type													
-600 lbs	98.00	102.28	91.72	102.90	90.83	79.03	88.33	96.04	93.58	98.28	86.96	92.29	93.08
Heifer Calves													
400-500 lbs	114.33	109.48	109.78	112.90	119.16	96.33	105.20	106.94	107.63	103.54	105.02	101.73	105.10
300-400 lbs	122.97	117.38	115.77	123.86	116.75	100.00	111.33	111.00	115.16	107.07	109.81	104.88	109.58
-300 lbs	121.00	114.50	141.00	117.00	106.00	168.00	122.00	126.78	119.57	111.30	106.25	-	113.37
Off Type													
-500 lbs	102.54	102.76	95.50	99.75	89.47	81.21	71.25	90.13	89.31	84.86	80.58	77.33	86.02
1989													
Feeders:													
Steer Calves													
500-600 lbs	105.56	107.47	104.85	105.59	107.45	104.63	110.50	98.07	108.61	106.71	106.34	104.72	106.50
400-500 lbs	105.90	110.74	108.01	111.01	109.11	107.00	110.00	109.70	113.74	114.99	112.84	109.03	113.38
-400 lbs	118.63	110.50	113.43	112.13	113.00	128.25	117.38	121.21	115.94	117.76	117.03	112.08	117.20
Off Type													
-600 lbs	82.50	89.45	82.65	85.17	80.55	81.93	86.82	88.54	84.16	86.12	88.08	79.19	85.68
Heifer Calves													
400-500 lbs	99.99	101.99	100.50	99.66	95.38	92.14	98.00	100.96	101.83	102.08	99.90	96.35	100.98
300-400 lbs	111.84	105.50	103.26	103.38	101.00	112.33	111.45	116.03	105.88	104.65	101.69	98.31	104.95
-300 lbs	-	-	-	110.50	-	-	-	-	-	105.92	101.10	-	103.70
Off Type													
-500 lbs	84.20	89.77	87.08	84.88	82.50	80.79	82.18	86.56	87.82	83.23	80.49	76.96	82.90

Table 39
AVERAGE MONTHLY CALF PRICES, EDMONTON + NORTH

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
1988													
Feeders:													
Steer Calves													
500-600 lbs	126.49	121.73	120.06	116.99	106.12	107.02	107.28	107.96	103.05	104.87	104.35	108.83	109.60
400-500 lbs	131.19	125.90	123.18	121.86	109.60	107.46	105.71	110.51	107.50	108.78	111.09	114.97	115.40
-400 lbs	134.87	135.19	124.27	125.11	108.39	111.35	116.87	122.31	111.86	114.38	118.20	120.03	119.13
Off Type													
-600 lbs	-	97.43	-	-	83.00	87.43	-	-	76.82	87.68	84.83	82.45	85.46
Heifer Calves													
400-500 lbs	116.93	110.43	109.49	109.61	97.37	97.99	102.99	101.19	97.37	101.84	101.86	103.19	103.79
300-400 lbs	117.67	117.42	113.50	-	95.97	100.00	105.64	102.50	101.93	100.84	108.29	109.41	105.68
-300 lbs	127.00	125.20	-	-	95.85	-	-	-	117.00	106.17	-	-	111.79
Off Type													
-500 lbs	88.00	-	-	-	-	-	-	-	74.00	68.97	-	-	76.22
1989													
Feeders:													
Steer Calves													
500-600 lbs	108.26	101.89	99.66	101.24	104.75	105.59	104.69	97.14	104.57	106.71	103.82	102.90	104.66
400-500 lbs	113.29	108.73	104.60	106.40	107.55	105.28	107.46	106.36	108.72	110.75	106.02	106.73	108.33
-400 lbs	113.68	103.48	102.85	106.00	106.33	111.17	113.41	107.61	121.22	118.50	108.42	108.23	113.20
Off Type													
-600 lbs	-	-	77.94	-	90.26	90.69	-	-	87.43	90.62	72.00	72.00	82.85
Heifer Calves													
400-500 lbs	99.58	93.93	90.22	90.07	93.15	92.65	94.15	93.88	98.17	103.17	95.52	94.02	97.22
300-400 lbs	103.34	95.89	90.89	97.70	91.88	101.60	104.74	105.68	106.38	106.68	-	101.59	102.48
-300 lbs	120.43	97.93	88.33	-	89.00	-	117.00	-	118.08	-	-	-	106.37
Off Type													
-500 lbs	70.00	-	-	-	71.01	73.00	58.00	-	-	-	-	86.00	72.28

Table 40
BRAND INSPECTION RECORDS OF LIVE CATTLE AND CALF SHIPMENTS OUT-OF-PROVINCE

1988r

	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	Maritimes	U.S.A.	Other	Total
				- number of head -					
Feeders:									
Bulls	164	192	3	14	90	0	198	0	661
Cows	1,148	806	44	154	0	0	1	0	2,153
Heifers	3,669	5,532	0	28,912	498	0	229	217	39,057
Steers	2,180	16,770	84	32,503	1,571	0	616	0	53,724
Calves	402	1,809	0	12,010	16	0	0	0	14,237
Yearlings	157	786	0	727	0	0	0	0	1,670
Total	7,720	25,895	131	74,320	2,175	0	1,044	217	111,502
Slaughter:									
Bulls	4,643	4,380	223	905	0	0	4,445	32	14,628
Cows	5,999	11,988	1,533	979	0	0	14,553	0	35,052
Heifers	4,170	1,290	431	6,019	0	0	78,316	15	90,241
Steers	3,844	9,637	1,542	9,919	0	0	124,770	0	149,712
Calves	0	0	0	103	0	0	47	0	150
Yearlings	0	0	0	0	0	0	0	0	0
Total	18,656	27,295	3,729	17,925	0	0	222,131	47	289,783
Replacement:									
Bulls	654	310	113	135	6	5	1,733	965	3,921
Cows	5,490	1,284	61	617	36	12	273	98	7,871
Heifers	2,966	971	98	819	88	11	1,000	755	6,708
Calves	2,518	466	59	337	2	2	245	110	3,739
Total	11,628	3,031	331	1,908	132	30	3,251	1,928	22,239
All Classes ..	38,004	56,221	4,191	94,153	2,307	30	226,426	2,192	423,524

Table 40 (cont`d)
BRAND INSPECTION RECORDS OF LIVE CATTLE AND CALF SHIPMENTS OUT-OF-PROVINCE

1989

	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	Maritimes	U.S.A.	Other	Total
				- number of head -					
Feeders:									
Bulls	151	478	0	14	1	0	55	13	712
Cows	746	1,217	0	46	13	0	7	0	2,029
Heifers	3,616	7,866	0	20,481	447	0	4,515	11	36,936
Steers	3,933	16,633	0	26,073	1,917	0	2,006	0	50,562
Calves	591	1,478	0	8,438	8	0	0	22	10,537
Yearlings	40	963	0	721	137	0	0	0	1,861
Total	9,077	28,635	0	55,773	2,523	0	6,583	46	102,637
Slaughter:									
Bulls	4,967	10,460	107	1,821	0	0	2,932	0	20,287
Cows	4,293	23,684	0	316	0	0	9,600	0	37,893
Heifers	435	6,077	0	5,909	0	0	86,305	0	98,726
Steers	1,165	21,458	0	17,229	687	0	104,887	0	145,426
Calves	6	15	0	48	0	0	0	0	69
Yearlings	0	0	0	82	0	0	9	0	91
Total	10,866	61,694	107	25,405	687	0	203,733	0	302,492
Replacement:									
Bulls	612	297	24	65	11	5	2,945	827	4,786
Cows	2,443	1,881	67	158	3	2	296	119	4,969
Heifers	2,085	943	33	356	20	4	337	1,868	5,646
Calves	1,039	984	25	45	5	0	219	106	2,423
Total	6,179	4,105	149	624	39	11	3,797	2,920	17,824
All Classes ..	26,122	94,434	256	81,802	3,249	11	214,113	2,966	422,953

Table 41
HOGS ON FARMS, JULY 1

Census Division	Breeding Stock 6 Months & Over		All Other Pigs		Total Pigs		
	1988r	1989	1988r	1989	1988r	1989	1989 as % 1988
	- thousands of head -						- % -
1	4.7	5.5	41.0	49.0	45.7	54.5	119.3
2	24.5	25.6	223.0	219.2	247.5	244.8	98.9
3	7.6	7.8	68.6	69.6	76.2	77.4	101.6
4	4.2	4.5	36.4	34.3	40.6	38.8	95.6
5	16.3	16.5	148.3	148.0	164.6	164.5	99.9
6 & 15	10.6	11.8	83.0	83.2	93.6	95.0	101.5
7	10.7	9.6	85.3	75.4	96.0	85.0	88.5
8 & 9	37.9	38.2	300.3	289.7	338.2	327.9	97.0
10	17.4	19.5	149.3	165.0	166.7	184.5	110.7
11	16.2	18.6	137.8	160.0	154.0	178.6	116.0
12 & 16	9.2	9.3	77.2	73.0	86.4	82.3	95.3
13 & 14	18.2	18.7	142.3	143.2	160.5	161.9	100.9
17, 18, 19	7.5	7.4	57.5	57.4	65.0	64.8	99.7
Province	185.0	193.0	1,550.0	1,567.0	1,735.0	1,760.0	101.4

r Revised

Note: These inventory estimates are subject to revision.

Table 42
HOG MARKETINGS BY INDEX GRADING, 1989

Month	114 & 112	111 & 109	108 & 106	105 & 103	102 & 100	99-97	96-94	93-91	90-83	82	81
					- number of head -						
January	4,544	11,743	31,730	20,548	23,030	11,176	5,420	2,785	3,551	1,676	1,752
February	5,408	12,441	30,993	19,924	22,551	10,634	5,270	2,495	3,153	1,476	1,460
March	7,027	16,226	40,874	26,879	28,509	14,480	7,354	3,442	4,104	1,932	1,818
April	7,348	16,887	42,666	28,177	30,367	15,062	7,652	3,429	4,331	2,123	2,115
May	6,318	14,705	39,544	27,653	30,394	15,890	8,331	3,759	4,693	2,151	1,742
June	8,008	18,755	49,331	34,615	38,249	20,341	11,164	4,961	6,503	3,324	2,140
July	5,445	13,636	37,791	26,579	29,761	16,016	8,555	3,827	4,850	2,100	1,294
August	4,947	11,742	33,199	23,046	25,544	13,011	7,002	3,146	3,702	1,490	922
September	6,621	17,290	47,973	33,522	35,447	17,605	9,480	4,157	4,669	1,769	1,181
October	5,539	13,629	36,217	25,048	26,867	13,261	6,766	3,077	3,687	1,561	1,204
November	6,064	15,295	40,604	29,930	28,107	13,525	6,866	2,970	3,495	1,568	1,271
December	7,090	18,135	47,459	30,872	31,182	15,123	7,611	3,308	3,652	1,507	1,214
Year	74,359	180,484	478,381	323,793	350,008	176,124	91,471	41,356	50,390	22,677	18,113

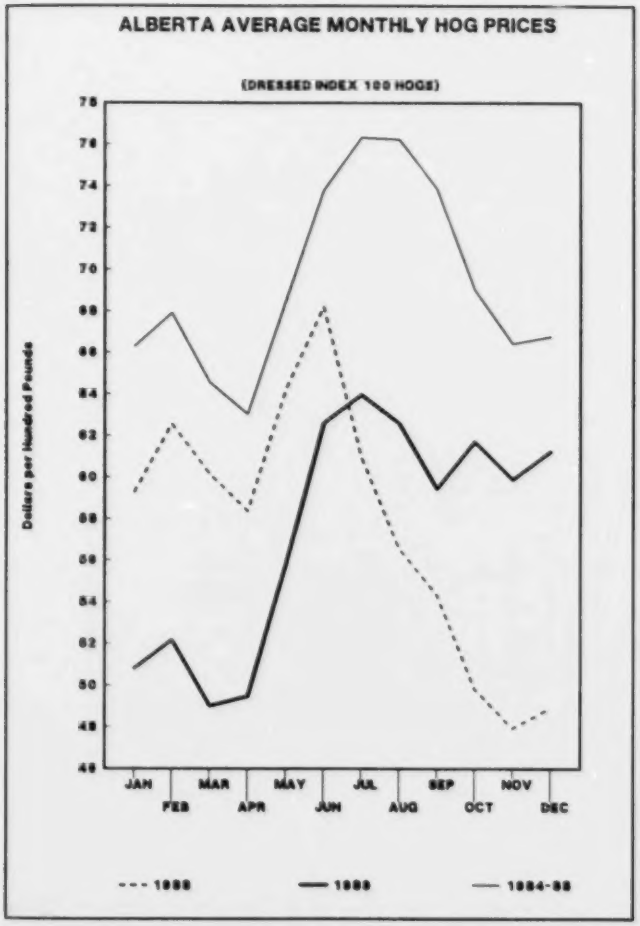
Table 42 (cont'd)
HOG MARKETING BY INDEX GRADING, 1989

Month	80	Emaciated	Ridglings	Sows	Stags	Boars	Total Graded	Total Ungraded	Grand Total
				- number of head -					
January	860	2	734	1,087	59	0	120,697	3,524	124,221
February	911	1	676	1,468	36	0	118,897	4,100	122,997
March	1,289	2	975	1,735	48	0	156,694	4,173	160,867
April	895	0	861	1,608	50	1	163,572	3,105	166,677
May	960	0	904	1,406	67	5	158,522	2,365	160,887
June	1,526	0	1,089	1,681	107	3	201,797	4,667	206,464
July	1,082	1	904	1,799	37	7	153,684	1,898	155,582
August	721	3	796	2,033	32	1	131,337	3,148	134,485
September	903	1	1,047	2,005	32	7	183,709	1,862	185,571
October	739	0	776	1,804	24	8	140,207	2,416	142,623
November	607	0	856	1,374	19	18	149,569	4,699	154,268
December	616	0	828	1,241	13	9	169,860	3,525	173,385
Year	11,109	10	10,446	19,241	524	59	1,848,545	39,482	1,888,027

Note: These data represent hogs of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 43
ALBERTA AVERAGE MONTHLY HOG PRICES

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.	Year
1988													
						- dollars per head pounds -							
Index 100 Dressed ..	59.29	62.55	60.15	58.38	64.23	68.22	60.96	56.56	54.34	49.80	47.95	48.90	57.56
Sows Dressed	35.74	39.87	35.83	35.79	39.01	35.56	32.21	31.75	31.16	29.12	26.63	27.08	32.80
Sows Live	26.47	30.32	28.67	27.72	28.30	28.61	33.20	23.94	24.46	22.45	20.18	19.86	25.59
Boars Live	21.33	21.23	20.15	21.02	19.97	20.93	20.34	14.12	14.03	13.48	14.10	13.22	17.47
						- dollars per head -							
Feeders:													
30-40 lbs	31.16	31.25	32.09	36.75	38.03	30.83	22.06	19.33	21.43	21.98	23.56	15.79	27.18
40-50 lbs	53.68	45.87	50.45	46.80	54.50	45.87	31.15	30.93	27.02	27.34	22.06	24.58	39.45
50-75 lbs	59.03	50.07	51.45	52.49	58.77	46.03	45.68	34.10	25.12	27.83	27.42	27.71	44.34
75-100 lbs	62.00	61.16	56.05	63.72	77.56	56.51	44.20	39.15	31.80	32.80	34.85	29.95	50.33
+ 100 lbs	72.00	70.00	62.22	75.05	71.95	74.90	51.82	-	51.45	61.50	43.98	46.12	57.04
1989													
						- dollars per hundred pounds -							
Index 100 Dressed ..	50.80	52.16	48.99	49.44	55.79	62.60	63.96	62.60	59.42	61.69	59.87	61.24	57.15
Sows Dressed	33.11	33.57	32.66	31.75	34.93	39.01	39.46	39.46	39.46	41.73	39.92	40.82	36.74
Sows Live	26.31	26.31	26.76	25.40	26.31	28.58	28.12	29.48	29.94	32.21	31.30	30.84	28.50
Boars Live	15.42	15.88	16.33	15.88	16.78	16.78	15.88	15.88	15.88	15.88	15.88	16.33	16.16
						- dollars per head -							
Feeders:													
30-40 lbs	13.87	15.27	14.43	24.66	19.86	24.44	27.26	29.52	27.76	28.20	16.84	31.25	23.35
40-50 lbs	25.99	23.18	35.68	37.23	30.09	35.32	37.64	35.50	31.75	40.76	38.45	50.69	34.53
50-75 lbs	31.53	36.90	40.10	37.65	35.10	40.67	41.50	43.12	48.68	45.93	46.15	50.36	40.79
75-100 lbs	33.34	37.72	48.12	49.33	41.61	47.83	52.29	47.91	44.08	56.81	50.92	51.00	45.84
+ 100 lbs	40.97	37.97	55.10	59.11	40.60	59.12	57.93	61.50	60.90	64.32	58.31	55.25	53.72


ALBERTA AVERAGE MONTHLY HOG PRICES
(DRESSED INDEX 100 HOGS)
Dollars per Hundred Pounds
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC

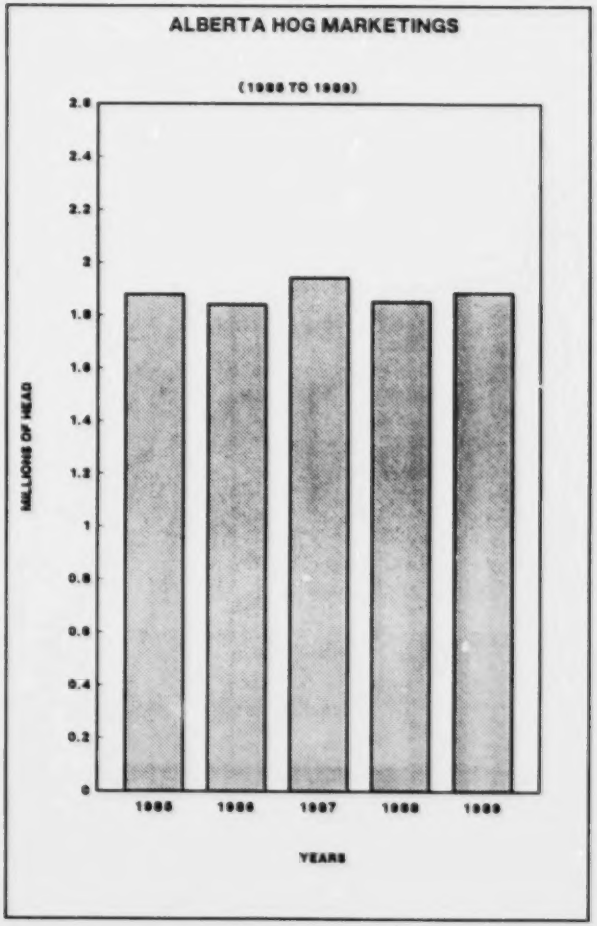

ALBERTA HOG MARKETINGS
(1988 TO 1989)
MILLIONS OF HEAD
YEARS

Table 44
SHEEP AND LAMBS ON FARMS, JULY 1

Census Division	One Year & Older		Under One Year		Total Sheep		1989 as % 1988
	1988r	1989	1988r	1989	1988r	1989	
	- thousands of head -						- % -
1	2.2	2.3	2.8	3.0	5.0	5.3	106.0
2	11.8	12.0	16.4	16.1	28.2	28.1	99.6
3	22.5	24.6	29.9	30.1	52.4	54.7	104.4
4	1.1	1.1	1.5	1.4	2.6	2.5	96.2
5	3.6	4.4	4.9	5.9	8.5	10.3	121.2
6 & 15	8.9	10.8	9.8	12.1	18.7	22.9	122.5
7	2.3	2.7	2.5	2.9	4.8	5.6	116.7
8 & 9	8.0	7.9	8.8	8.7	16.8	16.6	98.8
10	4.8	4.6	6.2	6.1	11.0	10.7	97.3
11	6.5	7.1	7.1	7.9	13.6	15.0	110.3
12 & 16	3.4	4.1	4.1	4.9	7.5	9.0	120.0
13 & 14	7.3	7.9	9.1	9.3	16.4	17.2	104.9
17, 18, 19	5.6	6.5	6.9	7.6	12.5	14.1	112.8
Province	88.0	96.0	110.0	116.0	198.0	212.0	107.1

r Revised

Note: These inventory estimates are subject to revision.

Table 45
SHEEP AND LAMB MARKETINGS

	1988			1989		
	Sheep	Lambs	Total	Sheep	Lambs	Total
	- number of head -			- number of head -		
January	196	1,808	2,004	88	3,119	3,207
February	518	2,950	3,468	141	3,355	3,496
March	566	4,702	5,268	273	4,554	4,827
April	259	2,204	2,463	536	2,337	2,873
May	374	2,225	2,599	489	4,795	5,284
June	1,413	5,501	6,914	808	7,282	8,090
July	213	5,125	5,338	643	5,756	6,399
August	153	5,696	5,849	423	5,696	6,119
September	262	6,271	6,533	515	7,899	8,414
October	367	5,520	5,887	360	5,293	5,653
November	335	3,888	4,223	281	5,257	5,538
December	111	5,248	5,359	287	8,051	8,338
Year	4,767	51,138	55,905	4,844	63,394	68,238

Note: These data represent sheep and lambs of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 46
AVERAGE MONTHLY SHEEP AND LAMB PRICES, EDMONTON + NORTH

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
1988													
Lambs:													
A & B +80 lbs	95.83	98.50	94.00	103.50	76.98	53.00	58.14	58.18	59.99	62.40	65.89	68.00	68.32
A & B -80 lbs	-	-	-	-	77.00	-	-	-	63.50	-	-	-	70.12
C +50 lbs	80.00	-	-	-	-	-	-	-	49.00	50.00	-	-	59.40
Feeders	113.82	100.00	122.31	121.00	108.00	67.00	74.0	67.05	75.48	79.03	82.21	85.00	82.34
Sheep:													
D1,2	-	-	-	33.93	35.00	25.00	41.00	-	38.67	28.00	27.50	-	33.18
Lambco, Innisfail(1):													
Lambs:													
A & B +80 lbs	96.00	97.00	95.50	93.38	87.25	66.90	64.50	64.50	64.50	64.50	66.00	71.00	77.54
1989													
Lambs													
A & B +80 lbs	75.30	78.00	74.50	76.00	77.00	75.00	67.00	66.55	64.10	56.87	55.20	55.00	65.99
A & B -80 lbs	80.00	-	85.00	75.00	-	-	65.00	62.50	62.34	52.69	47.00	-	63.10
C +50 lbs	63.00	66.00	-	70.00	-	53.00	63.00	-	61.00	-	-	-	62.63
Feeders	90.00	85.00	91.93	89.00	84.00	85.03	77.00	73.56	70.69	68.00	58.52	63.00	73.57
Sheep													
D1,2	28.21	-	27.00	-	40.00	40.00	-	22.00	25.00	30.00	-	-	33.32
Lambco, Innisfail(1):													
Lambs:													
A & B 95-105 lbs	72.38	74.00	74.50	79.00	82.75	77.90	73.50	69.50	70.60	69.38	65.50	66.33	72.95

1 Simple averages in 1988; simple averages of A & B 95-105 lbs in 1989.

Table 47
LIVESTOCK ON FARMS, JULY 1*

Year	Milk Cows & Dairy Heifers	Beef Cows & Beef Heifers(1)	Calves	All Cattle	Hogs	Sheep and Lambs
			- thousands of head -			
1968	252.0	1,479.0	1,018.0	3,341.0	1,266.0	210.0
1969	232.0	1,478.0	989.0	3,286.0	1,187.0	180.0
1970	233.0	1,600.0	1,070.0	3,493.0	1,532.0	199.0
1971	223.6	1,721.3	1,157.3	3,702.1	1,739.1	244.9
1972	210.0	1,864.0	1,225.0	3,924.0	1,490.0	256.0
1973	205.0	2,031.0	1,319.0	4,201.0	1,499.0	241.0
1974	200.0	2,219.0	1,434.0	4,595.0	1,322.0	230.0
1975	193.0	2,242.0	1,458.0	4,689.0	873.0	209.0
1976	214.0	2,168.0	1,435.0	4,675.0	879.9	183.0
1977	210.0	2,078.0	1,315.0	4,350.0	944.3	146.5
1978	209.0	1,960.0	1,239.0	4,135.0	960.0	142.5
1979	215.0	1,925.0	1,205.0	4,080.0	1,130.0	153.5
1980	224.0	1,951.0	1,290.0	4,155.0	1,251.0	178.0
1981	220.5	1,936.0	1,300.0	4,153.0	1,185.0	198.0
1982	209.0	1,941.0	1,260.0	4,080.0	1,180.0	203.0
1983	194.0	1,905.0	1,235.0	3,965.0	1,255.0	202.0
1984	190.0	1,899.0	1,255.0	3,975.0	1,470.0	188.0
1985	181.0	1,831.0	1,245.0	3,840.0	1,475.0	175.0
1986	175.0	1,802.0	1,252.0	3,746.0	1,508.0	183.6
1987	178.0	1,837.0	1,280.0	3,860.0	1,670.0	194.0
1988(2)	176.0	1,929.0	1,345.0	4,030.0	1,735.0	198.0
1989(2)	176.0	2,013.0	1,440.0	4,190.0	1,760.0	212.0

* Prior to 1975, estimates of livestock numbers were based on June 1 survey.
1 Beef heifers include heifers being raised for slaughter, and heifers for beef herd replacement.
2 1988 and 1989 numbers are subject to revision.

Table 48
LIVESTOCK SLAUGHTERED IN FEDERALLY AND PROVINCIALLY INSPECTED PACKING PLANTS

1988

	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Hogs	Sheep & Lambs
				- number of head -				
January	45,566	33,024	14,612	285	93,487	527	147,276	5,160
February	44,627	32,290	14,052	221	91,190	457	142,717	4,794
March	51,877	32,111	12,326	311	96,625	527	174,634	8,657
April	53,796	29,724	11,416	451	95,387	546	149,226	5,134
May	55,709	31,240	11,931	506	99,386	500	137,951	5,892
June	78,040	36,585	14,600	739	129,964	574	170,775	6,988
July	62,649	30,009	8,677	837	102,172	404	143,202	5,662
August	55,772	28,512	8,685	856	93,825	447	88,471	5,904
September	73,274	36,231	11,452	1,225	122,182	640	113,280	7,915
October	52,131	25,016	14,913	413	92,473	639	91,092	6,432
November	49,780	26,841	20,375	612	97,608	528	99,706	7,027
December	56,753	34,625	20,540	372	112,290	537	105,444	6,761
Year	679,974	376,208	163,579	6,828	1,226,589	6,326	1,563,774	76,326

Note: These data represent livestock slaughtered in Alberta under federal and provincial inspection, irrespective of their origin.

Table 48 (cont'd)
LIVESTOCK SLAUGHTERED IN FEDERALLY AND PROVINCIALLY INSPECTED PACKING PLANTS

1989

	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Hogs	Sheep & Lambs
	- number of head -							
January	43,124	30,264	17,114	370	90,872	591	88,722	5,447
February	38,241	31,257	15,303	281	85,082	555	89,957	5,192
March	55,467	34,392	17,490	428	107,777	586	123,819	9,049
April	56,747	28,933	15,690	600	101,970	403	142,172	6,048
May	60,768	26,684	13,737	598	101,787	433	142,583	6,560
June	83,265	34,287	18,535	740	136,827	570	188,167	8,155
July	65,739	27,015	11,087	505	104,346	374	135,536	6,464
August	62,034	28,279	9,451	358	100,122	317	115,095	6,374
September	78,003	36,708	13,247	466	128,424	703	163,758	9,028
October	54,741	29,316	16,595	350	101,002	530	125,368	6,306
November	52,602	33,174	21,252	487	107,515	524	137,087	6,658
December	58,678	36,986	28,452	409	124,525	618	153,286	8,715
Year	709,409	377,295	197,953	5,592	1,290,249	6,204	1,605,550	83,996

Note: These data represent livestock slaughtered in Alberta under federal and provincial inspection, irrespective of their origin.

HORSE INDUSTRY

The activity in the horse industry declined overall in 1989. The only two sectors which increased in volume in the past year were pregnant mare urine production and the total quantity of horse meat for export.

Horse meat exports increased only marginally in 1989 and their value actually declined by almost 15 percent due to lower prices. Exports to Europe, the principal destination for Alberta horse meat, decreased by over ten per cent from last year. Exports to Japan, in contrast, increased by 35 per cent which offset the decline in the sales to Europe.

Live horse exports returned to near 1987 levels in 1989, with a 35 per cent decline from the abnormally high volume of exports in 1988. The decline of live slaughter horse exports was most severe; the number of head decreased from 476 in 1988 to 61 in 1989, an 87 per cent decline.

The total number of breed registrations appear to have declined in 1989. However, the decrease is probably due to incomplete processing of the thoroughbred registrations resulting from system changes made last year. Estimated returns to producers from the sale of registered horses for 1990 is $15 million or almost equal to 1989 levels.

Pregnant mare urine (PMU) sales increased by almost 20 per cent in 1988/89. While the number of farms did not change, the number of mares increased by 15 per cent.

Table 49
HORSE MEAT EXPORTS

Quantity

	1985	1986	1987	1988	1989
	- tonnes -				
Europe	4 696	7 030	7 508	8 195	7 240
Japan	2 380	3 388	4 087	3 190	4 312
U.S.A.	43	58	-	76	35
Other	-	-	79	571	493
Total	7 119	10 476	11 674	12 032	12 080

Value

	1985	1986	1987	1988	1989
	- $ '000 -				
Europe	9,309	18,595	26,032	31,498	24,942
Japan	5,755	8,387	10,855	9,335	9,921
U.S.A.	68	62	-	87	102
Other	-	-	101	544	487
Total	15,132	27,044	36,988	41,464	35,452

Table 50
BRAND INSPECTION RECORD OF
LIVE ALBERTA HORSE SHIPMENTS BY DESTINATION

	1988r				1989			
	Alberta	Other Provinces	Export	Total	Alberta	Other Provinces	Export	Total
		- number of head -				- number of head -		
Feeders:								
Fillies	3	0	0	3	0	0	0	0
Geldings	17	2	11	30	4	0	1	5
Mares	54	42	10	106	6	0	0	6
Stallions	3	3	0	6	0	0	0	0
Colts	18	7	0	25	0	0	0	0
Total	95	54	21	170	10	0	1	11
Slaughter:								
Fillies	130	11	6	147	206	0	0	206
Geldings	3,870	65	242	4,177	3,569	74	23	3,666
Mares	5,452	121	224	5,797	4,791	133	38	4,962
Stallions	1,096	13	4	1,113	1,057	0	0	1,057
Colts	226	0	0	226	192	0	0	192
Total	10,774	210	476	11,460	9,815	207	61	10,083
Replacement:								
Fillies	0	0	2	2	0	0	1	1
Mares	0	13	19	32	0	0	2	2
Stallions	0	2	3	5	0	1	2	3
Colts	0	4	6	10	0	0	1	1
Total	0	19	30	49	0	1	6	7
Unclassified (1):								
Fillies	2	14	57	73	1	20	45	66
Geldings	3	582	655	1,240	15	843	619	1,477
Mares	6	217	263	486	27	361	243	631
Stallions	2	10	29	41	7	23	13	43
Colts	0	6	5	11	0	7	10	17
Total	13	829	1,009	1,851	50	1,254	930	2,234
All Classes ..	10,882	1,112	1,536	13,530	9,875	1,462	998	12,335

1 Prior to 1989 unclassified animals were included with feeders.
r Revised

Table 51
REGISTRATIONS AND SALES OF REGISTERED HORSES IN ALBERTA

	Registrations by Breed Associations					Ownership Transfers				
	1985	1986	1987	1988r	1989	1985	1986	1987	1988	1989
	- number of head -					- number of head -				
Arabian	756	577	513	566	481	630	629	595	751	685
Appaloosa	364	306	365	352	366	382	330	354	252	293
Morgan	193	184	131	148	145	199	203	153	234	203
Quarter Horse	3,853	4,005	3,432	3,016	3,119	5,588	4,789	4,891	4,686	4,105
Standardbred	353	271	399	367	324	N/A	N/A	N/A	N/A	N/A
Thoroughbred	770	797	684	650	407 (1)	N/A	N/A	N/A	N/A	N/A
Draft	304	267	284	329	271	360	302	386	316	399
Others	242	269	184	189	206	131	165	148	314	210
Total (2)	7,126	6,405	5,992	5,617	5,319	7,290	6,418	6,527	6,553	5,795

1 Thoroughbred registration incomplete due to system change.
2 Transfer totals do not include Standardbreds and Thoroughbreds.

N/A Data not available
r Revised

Table 52
PREGNANT MARE URINE STATISTICS

	Number of Mares	Number of Farms	Gross Revenue*
	- number -	- number -	- $ '000 -
1985/86	3,020	28	2,728
1986/87	2,700	27	2,637
1987/88	2,650	27	2,578
1988/89	2,869	27	3,262
1989/90	3,297	27	3,846

* Gross farm revenue from the sale of pregnant mare urine.

DAIRY INDUSTRY

There were an estimated 126,000 dairy cows on farms in Alberta at January 1, 1990. The definition of a dairy cow is any cow being kept for milk purposes which has calved at least once, irrespective of age.

Milk production during 1989-90 amounted to 664,548,000 litres, an increase of 9.1 per cent over the previous year. The estimated farm value of milk production was 320 million dollars.

Creamery butter production totalled 7.2 million kilograms and cheddar cheese 7.1 million kilograms. Fluid milk sales increased to 243.0 million litres from 239.5 million litres.

Table 53
DAIRY PRODUCER REGISTRATIONS

	Type of Producer			
	Fluid	Industrial	Cream	Total
1989	1,464	0	587	2,051
1990	1,440	2	490	1,932

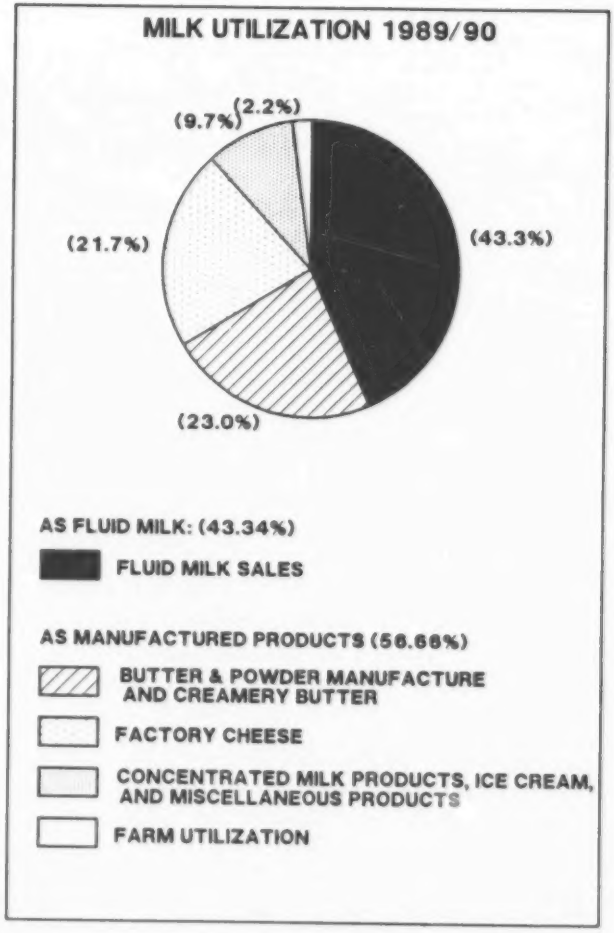


Table 54
MILK AND CREAM PRODUCTION IN KILOGRAMS OF BUTTERFAT

	Fluid Milk & Industrial Milk (1)		Industrial Cream		Total	
	1987-88	1988-89	1987-88	1988-89	1987-88	1988-89
			- kilograms -			
August	1 735 830	1 760 806	73 753	67120	1 809 583	1 827 926
September	1 627 416	1 661 214	62 813	56229	1 690 229	1 717 443
October	1 650 173	1 664 075	56 352	45088	1 706 525	1 709 163
November	1 594 189	1 595 151	46 062	37635	1 604 251	1 632 786
December	1 691 855	1 687 569	42 076	33593	1 733 931	1 721 162
January	1 725 662	1 730 013	39 025	33585	1 764 687	1 763 598
February	1 638 935	1 579 229	41 332	33258	1 680 267	1 612 487
March	1 784 898	1 769 738	49 563	39446	1 834 461	1 809 184
April	1 762 884	1 744 562	51 056	38730	1 813 940	1 783 292
May	1 858 621	1 851 859	60 053	49685	1 918 674	1 901 544
June	1 804 681	1 812 515	63 178	53964	1 867 859	1 866 479
July	1 819 590	1 812 885	53 420	45320	1 873 010	1 858 205
Total	20 694 734	20 669 616	638 683	533653	21 333 417	21 203 269

1 Industrial included in fluid milk.

Table 55
PRODUCTION AND VALUE OF FACTORY DAIRY PRODUCTS

	Year*	Quantity	Price	Value
		- '000 -	- $ -	- $'000 -
Creamery Butter (kilograms)	1988-89	5 972	4.406 /kg	26,315
	1989-90	7 147	5.687 /kg	40,645
Cheddar Cheese (kilograms)	1988-89	7 141	6.566 /kg	46,887
	1989-90	7 057	7.337 /kg	51,777
Variety Cheese (kilograms)	1988-89	5 438	5.766 /kg	28,957
	1989-90	5 588	7.160 /kg	40,010
Ice Cream (litres)(1)	1988-89	29 425	1.930 /litre	56,790
	1989-90	28 576	2.110 /litre	60,295
Fluid Milk Sales (litres)(2)	1988-89	239 594	0.809 /litre	193,832
	1989-90	243 028	0.866 /litre	210,462
Fluid Cream Sales (litres)	1988-89	10 260	2.838 /litre	29,120
	1989-90	10 334	3.136 /litre	32,407
Fluid Buttermilk, Chocolate Milk and Eggnog (litres)	1988-89	16 693	1.048 /litre	17,494
	1989-90	18 125	0.985 /litre	17,853
Miscellaneous Manufactured and Cultured Products(3)	1988-89	-	-	118,745
	1989-90	-	-	130,281
Total	1988-89	-	-	518,140
	1989-90	-	-	586,730

* April 1 - March 31

1 Includes hard and soft ice cream.
2 Skim milk has been included in fluid milk.
3 Includes concentrated milk products, cottage cheese, whey cheese, yoghurt and yoghurt mix (hard & soft).

Table 56
FARM VALUE OF MILK PRODUCTION

	Year*	Milk Equivalent	Total Milk	Price	Value
		- '000 litres -	- % -	- $ -	- $'000 -
Milk fat for Creamery Butter(1)	1988-89r	13 160	2.18	4.630 /kg	2,681
	1989-90	10 365	1.56	4.650 /kg	2,116
Milk Purchased for the Manufacture of Powder and Butter(2)	1988-89r	117 744	19.55	40.81 /hl	48,056
	1989-90	142 728	21.48	41.05 /hl	58,590
Milk for Cheese making	1988-89r	130 403	21.65	40.87 /hl	53,294
	1989-90	144 156	21.69	41.09 /hl	59,247
Milk for Concentrating and Milk and Butterfat for Ice Cream and Miscellaneous Products(3)	1988-89r	62 562	10.39	42.65 /hl	26,683
	1989-90	64 641	9.73	42.92 /hl	27,744
Milk Purchased for Fluid Purposes	1988-89r	260 576	43.27	50.46 /hl	131,489
	1989-90	288 009	43.34	52.82 /hl	152,138
Skim milk kept on Farms	1988-89r	17 821	2.96	22.19 /hl	3,954
	1989-90	14 649	2.20	20.64 /hl	3,024
Estimated Federal Subsidy	1988-89	-	-	-	18,637
	1989-90	-	-	-	18,445
Total	1988-89r	602 266	-	-	284,794
	1989-90	664 548	-	-	320,404

* April 1 - March 31

1 Recorded as Butterfat for Creamery Butter in 1988 and prior.
2 Includes milk used for the making of cottage cheese.
3 Does not include butterfat from creamery butter used in the manufacture of ice cream.

POULTRY AND EGGS

Egg prices increased quite sharply in August of 1988. Prices continued to move in a gradually upward trend for the rest of 1988 and most of 1989. Both layer numbers and egg production declined in 1989 relative to 1988.

Chicken prices rose by 11 to 13 cents per kilogram in 1989 from 1988 levels, with prices strengthening throughout 1989. Turkey prices, in contrast, only increased by seven to 11 cents per kilogram. Turkey prices, except those for birds larger than nine kilograms, actually dropped in the second half of the year, relative to the first half of the year.

The number of chickens and turkeys eviscerated decreased for all sizes of birds, except for 5-8 kilogram turkeys. This resulted in a two per cent decrease in poultry supply from 1988 levels.

Table 57
EGG PRICES TO PRODUCERS

	Grade AL	Grade AM	Grade AS	Grade B	Grade C
	- cents per dozen -				
	1988				
January	99	88	49	60	30
February	100	89	50	60	30
March	99	88	49	60	30
April	99	88	49	60	30
May	100	89	50	60	30
June	101	90	51	60	30
July	104	93	54	60	30
August	110	99	60	60	30
September	110	99	60	60	30
October	113	102	63	60	30
November	113	102	63	60	30
December	113	102	63	60	30
	1989				
January	114	103	64	60	30
February	114	103	64	60	30
March	116	105	66	60	30
April	116	105	66	60	30
May	116	105	66	60	30
June	117	106	67	60	30
July	117	106	67	60	30
August	116	105	66	60	30
September	116	105	66	60	30
October	118	107	68	60	30
November	119	108	69	60	30
December	118	107	68	60	30

Note: Prices have been rounded to the nearest cent.

Table 58
AVERAGE MONTHLY PRICES TO PRODUCERS OF LIVE CHICKENS AND TURKEYS

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
						- cents per kilogram -							
						1988							
Chickens:													
Under 2.3 kg	101.5	99.0	102.0	102.0	102.8	105.0	109.0	114.5	119.0	119.0	119.0	119.0	109.5
2.3 and under 2.8 kg	92.0	89.5	92.5	92.5	93.3	95.5	99.5	105.0	109.5	109.5	109.5	109.5	100.0
2.8 and under 3.2 kg	116.0	113.5	116.5	116.5	117.2	119.5	123.5	129.0	133.5	133.5	133.5	133.5	124.0
3.2 kg and over	116.0	113.5	116.5	116.5	117.2	119.5	123.5	129.0	133.5	133.5	133.5	133.5	124.0
Turkeys:													
5.4 kg and under	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	157.5	159.2	157.5	149.8
5.4 and under 9.0 kg	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	156.5	158.2	156.5	148.0
9.0 kg and over	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	149.5	151.2	149.5	146.3
						1989							
Chickens:													
Under 2.3 kg	119.0	119.0	119.0	119.0	119.0	122.0	124.0	125.2	126.0	126.0	126.0	126.0	122.5
2.3 and under 2.8 kg	109.5	109.5	109.5	109.5	109.5	111.3	112.5	113.8	112.5	112.5	112.5	112.5	111.3
2.8 and under 3.2 kg	133.5	133.5	133.5	133.5	133.5	136.5	138.5	139.7	140.5	140.5	140.5	140.5	137.0
3.2 kg and over	133.5	133.5	133.5	133.5	133.5	136.5	138.5	139.7	140.5	140.5	140.5	140.5	137.0
Turkeys:													
5.4 kg and under	157.5	157.5	157.5	157.5	157.5	155.7	154.5	154.5	154.5	154.5	156.0	156.5	156.1
5.4 and under 9.0 kg	156.5	156.5	156.5	156.5	157.5	155.7	154.5	154.5	154.5	154.5	156.0	156.5	155.8
9.0 kg and over	149.5	149.5	152.8	155.0	158.0	159.8	161.0	161.0	161.0	161.0	162.5	163.0	157.8

Note: Prices are Alberta averages

Table 59
HATCHERY CAPACITIES

	Breeder Hatcheries	Commercial Hatcheries	Total Hatchery Capacity
		- number -	
1982	0	16	6,250,004
1983	0	15	6,587,144
1984	1	14	6,225,870
1985	1	14	6,225,870
1986	-	12	6,352,592
1987	-	12	6,352,592
1988	-	12	6,352,592
1989	1	12	6,338,640

Table 60
CHICK PRODUCTION

For Egg Production Type*

1988r	1989	Change
	- number -	- % -
2,192,000	2,075,000	-5.3

For Broiler & Roaster Production Type

1988	1989	Change
	- number -	- % -
34,036,000	34,708,000	+2.0

* Female chicks only

Table 61
CHICK SUPPLY AND DISPOSITION

	Hatch-ability -%-	Chicks Hatched(1)	International Imports	Interprovincial Imports - number -	Total Exports	Net Supply	Residual(2)
1982	77.4	40,085,522	516,585	412,500	1,421,022	37,339,266	2,254,319
1983	75.8	37,282,000	455,681	520,524	619,598	35,568,536	2,070,071
1984	77.2	39,954,421	389,000	519,935	772,414	37,859,628	2,231,314
1985	77.7	39,644,683	468,178	378,437	827,707	37,455,660	2,207,931
1986	77.0	40,571,570	455,770	355,292	1,083,440	37,721,923	2,577,269
1987	76.8	44,697,000	517,000	505,323	1,389,000	41,860,323	2,470,000
1988r	75.7	41,888,000	435,000	587,396	976,530	39,539,866	2,394,000
1989	75.7	41,704,000	491,000	661,707	914,935	39,834,772	2,107,000

1 Includes both Leghorn and broiler chicks.
2 The residual consists primarily of Leghorn cockerels that are destroyed.
r Revised

Table 62
TURKEY POULT SUPPLY AND DISPOSITION

	Hatchability %	Poults Hatched	International Imports	Interprovincial Imports	Total Exports	Net Supply
				- number -		
1981	64.4	1,444,563	-	292,934	223,230	1,514,267
1982	66.2	1,330,143	43,550	310,000	134,692	1,549,001
1983	66.7	1,377,871	64,654	290,582	135,107	1,598,000
1984	69.8	1,243,654	111,177	491,152	154,674	1,691,309
1985	71.4	1,165,266	178,143	520,755	201,550	1,662,614
1986	71.2	1,083,894	26,650	694,664	202,146	1,603,062
1987	68.7	1,046,012	22,000	882,394	163,486	1,786,920
1988r	70.9	1,020,000	33,000	778,846	181,774	1,650,072
1989	67.4	1,039,000	11,000	701,140	176,493	1,574,647

r Revised

Table 63
POULTRY EVISCERATED IN REGISTERED STATIONS

	Chickens		Fowl	Ducks	Geese	Turkeys			
	Under 2 kg	Over 2 kg				Under 5 kg	5-8 kg	Over 8 kg	Total*
				- thousands of kilograms -					
1982	34 409	2 501	2 059	-	6.0	1 914	3 487	3 203	8 724
1983	33 317	2 003	1 836	0.4	7.1	1 784	3 605	3 185	8 671
1984	36 497	2 210	2 531	7.0	8.0	1 999	3 853	3 666	9 650
1985	38 047	2 340	-	-	-	2 003	4 063	3 107	9 361
1986	36 993	2 198	-	-	-	1 673	3 824	3 727	9 357
1987	39 273	2 767	-	-	-	1 713	4 272	4 469	10 620
1988	39 238	2 877	-	-	-	1 924	4 148	4 510	10 778
1989	39 028	2 244	-	-	-	1 516	5 310	3 414	10 423

* Total includes mature turkeys.

Table 64
OUTPUT AND VALUE OF POULTRY MEATS

1988

	Total Production		Consumed by Producers		Sold	
	Volume	Value	Volume	Value	Volume	Value
	- tonnes -	- $'000 -	- tonnes -	- $'000 -	- tonnes -	- $'000 -
Stewing Hen & Chicken	48 839	71,844	860	1,363	47 979	70,481
Turkey	10 003	17,650	53	94	9 950	17,556
Total	58 842	89,494	913	1,457	57 929	88,037

1989

	Total Production		Consumed by Producers		Sold	
	Volume	Value	Volume	Value	Volume	Value
	- tonnes -	- $'000 -	- tonnes -	- $'000 -	- tonnes -	- $'000 -
Stewing Hen & Chicken	47 985	79,591	909	1,630	47 076	77,961
Turkey	9 850	18,553	56	107	9 794	18,446
Total	57 835	98,144	965	1,737	56 870	96,407

Table 65
PRODUCTION, DISPOSITION AND VALUE OF EGGS

1988r

	Production		Disposition						
			Sold(1)						
	Number of Layers	Production	For Consumption	Value	For Hatching	Value	Leakers & Rejects	Producer use for Consumption	Value
	'000	'000 doz.	'000 doz.	$'000	'000 doz.	$'000	'000 doz.	'000 doz.	$'000
January	1,943	3,292	2,845	2,331	343	957	58	48	44
February	1,983	3,179	2,654	2,208	423	1,180	54	48	45
March	2,005	3,477	2,889	2,368	482	1,345	58	48	45
April	2,023	3,449	2,843	2,313	500	1,395	58	48	44
May	2,040	3,557	3,070	2,520	377	1,052	62	48	44
June	2,012	3,343	2,839	2,349	399	1,113	57	48	45
July	2,006	3,491	3,032	2,621	350	977	61	48	46
August	1,986	3,520	3,028	2,781	383	1,069	61	48	48
September	1,927	3,331	2,875	2,674	350	977	58	48	49
October	1,880	3,386	2,938	2,803	341	951	59	48	50
November	1,868	3,281	2,819	2,672	357	996	57	48	51
December	1,894	3,352	2,897	2,734	348	971	59	48	50
Year	1,964	40,658	34,723	30,374	4,653	12,983	702	576	561

1 Includes exports.
r Revised

Table 65 (cont'd)
PRODUCTION, DISPOSITION AND VALUE OF EGGS

1989

	Production		Disposition						
			Sold(1)						
	Number of Layers	Production	For Consumption	Value	For Hatching	Value	Leakers & Rejects	Producer use for Consumption	Value
	'000	'000 doz.	'000 doz.	$'000	'000 doz.	$'000	'000 doz.	'000 doz.	$'000
January	1,914	3,284	2,849	2,742	329	918	58	48	50
February	1,947	2,959	2,489	2,412	372	1,038	50	40	51
March	1,940	3,242	2,677	2,624	463	1,292	54	48	51
April	1,945	3,150	2,613	2,563	436	1,216	53	48	51
May	1,980	3,318	2,790	2,698	424	1,183	56	48	51
June	1,947	3,170	2,702	2,642	365	1,018	55	48	51
July	1,945	3,282	2,823	2,796	354	988	57	48	52
August	1,944	3,281	2,798	2,730	378	1,055	57	48	51
September	1,899	3,130	2,695	2,650	332	926	55	48	51
October	1,858	3,199	2,764	2,784	331	923	56	48	53
November	1,834	3,056	2,569	2,578	387	1,080	52	48	52
December	1,847	3,177	2,742	2,713	332	926	55	48	52
Year	1,917	38,248	32,514	31,932	4,503	12,563	658	576	616

1 Includes exports.

APICULTURE

The number of beekeepers in the province continued to decline in 1989. This was the result of the U.S.A. - Canada border closure to the importation of bees imposed in the Fall of 1987 coupled with low honey prices. However, the number of colonies per beekeeper continued to rise and partially counteracted the producer exits from the industry. In 1989 the number of beekeepers fell by 25 per cent from 1988. The total number of colonies fell only four per cent from 1988 to 1989, as the number of colonies per apiary increased over 25 per cent.

The honey yield suffered greatly in 1989 due primarily to poor weather. Yields fell to 48 kilograms per colony, a 30 per cent decline from 1988 which was one of the best years in the last ten. This decline in yield combined with the decrease in number of colonies resulted in a 35 per cent drop in total honey production.

Prices for honey rallied in 1989 due to the decline in production and a shortage of high quality honey in the U.S.A.. Thus, although total production declined severely in 1989 the value of honey production decreased only 20 per cent.

Table 66
BEEKEEPERS AND COLONIES

	Beekeepers	Colonies	Colonies Per Apiary
		- number -	
1980	1,800	160,000	89
1981	1,700	170,000	100
1982	1,650	174,000	105
1983	1,610	172,000	107
1984	1,600	180,000	112
1985	1,700	170,000	100
1986	1,700	190,000	112
1987	1,480	193,000	130
1988	1,140	150,000	132
1989	855	143,500	168

Table 67
HONEY PRODUCTION AND PRICE

	Yield Per Colony	Total Production	Price
	- kg -	- tonnes -	- $/kg -
1980	64	10 306	1.28
1981	62	10 478	1.42
1982	47	8 210	1.37
1983	66	11 385	1.32
1984	70	12 542	1.07
1985	49	8 392	1.24
1986	57	10 886	1.32
1987	60	11 567	0.92
1988	70	10 433	0.88
1989	48	6 833	1.08

Table 68
HONEY AND BEESWAX VALUE

	Honey	Honey and Wax
	- dollars -	
1980	13,166,000	14,579,000
1981	14,934,000	15,339,000
1982	11,265,000	11,506,000
1983	15,029,000	15,300,000
1984	13,410,250	13,699,250
1985	10,415,500	10,664,900
1986	14,400,000	14,595,000
1987	10,710,000	10,921,200
1988r	9,200,000	9,511,000
1989	7,382,000	7,590,000

r Revised

FUR FARMING INDUSTRY

Table 69
FUR FARM LICENCES ISSUED

	1987-88r	1988-89
	- number -	
Mink & Other	17	13
Fox & Other	49	55
Chinchilla	33	39
Other (Lynx, Fisher, Marten, Coyote, Fitch)	18	28

Table 70
ANIMALS RETAINED FOR BREEDING

	No. of Animals		Total Value	
	1987-88r	1988-89	1987-88r	1988-89
	- number -		- dollars -	
Mink	17,085	17,722	1,469,310	921,544
Fox	2,657	2,293	627,052	261,402
Total (1)	19,742	20,015	2,096,362	1,182,946

1 Data for other animals no longer available.

Table 71
ANIMALS PELTED

	Mink Pelts		Fox Pelts	
	Produced	Value	Produced	Value
	- no. -	- $ -	- no. -	- $ -
1980-81	33,270	1,164,450	N/A	N/A
1981-82	34,117	1,023,510	N/A	N/A
1982-83	37,119	1,113,570	N/A	N/A
1983-84	40,817	1,616,353	675	94,500
1984-85	28,119	1,012,284	634	88,760
1985-86	30,855	987,360	617	92,500
1986-87	31,408	1,633,216	1,083	187,359
1987-88	37,733	1,622,519	1,222	144,196
1988-89	40,866	1,062,516	2,351	134,007

Table 72
TOTAL VALUE OF PELTS PRODUCED

	Total Value
	- dollars -
1986-87	1,820,575
1987-88r	1,766,715
1988-89	1,196,523

N/A Data not available.
r Revised

FOOD AND BEVERAGE INDUSTRY

Table 73
PER CAPITA CONSUMPTION OF MEATS IN CANADA

Year	Beef	Veal	Mutton & Lamb	Pork	Offals	Poultry
			- kilograms per year -			
1968	38.6	3.1	2.2	24.3	1.7	18.1
1969	38.8	2.3	2.3	23.3	1.7	20.0
1970	38.3	2.1	2.1	26.7	1.5	20.5
1971	40.2	2.0	1.5	29.5	2.0	19.7
1972	42.8	1.7	2.1	28.6	1.9	20.2
1973	42.0	1.5	1.6	26.9	1.8	20.9
1974	43.7	1.6	1.1	28.2	1.7	20.3
1975	48.5	2.4	1.3	24.1	1.7	19.0
1976	51.4	2.4	1.0	25.1	1.7	20.0
1977	48.8	2.3	0.8	25.1	1.6	20.7
1978	45.7	1.8	0.9	26.0	1.9	21.3
1979	39.9	1.4	1.1	29.0	1.4	22.8
1980	39.5	1.4	0.8	31.3	1.9	22.8
1981	40.7	1.6	0.7	30.1	1.4	22.6
1982	40.4	1.7	0.7	27.8	1.3	22.7
1983	40.0	1.7	0.8	28.6	1.4	22.9
1984	38.3	1.8	0.9	27.9	1.5	23.7
1985	38.8	1.8	0.8	28.5	1.7	25.1
1986	39.5	1.8	0.9	27.9	1.7	26.2
1987	38.2	1.7	0.9	28.7	1.5	27.7
1988r	38.3	1.5	0.9	29.3	1.0	28.4
1989	37.6	1.7	0.8	29.3	0.8	27.7

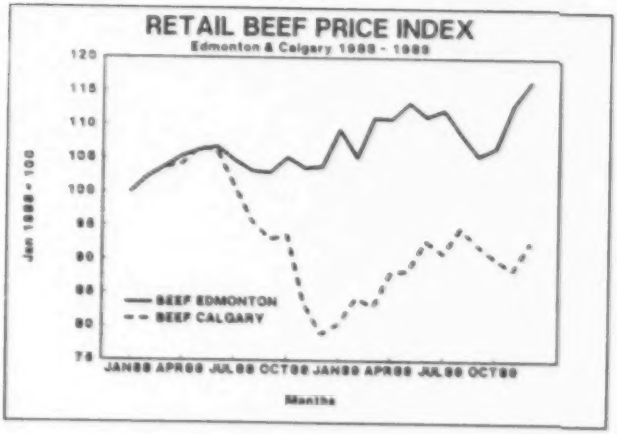
Note: Poultry consumption data prior to 1977 include geese and ducks.

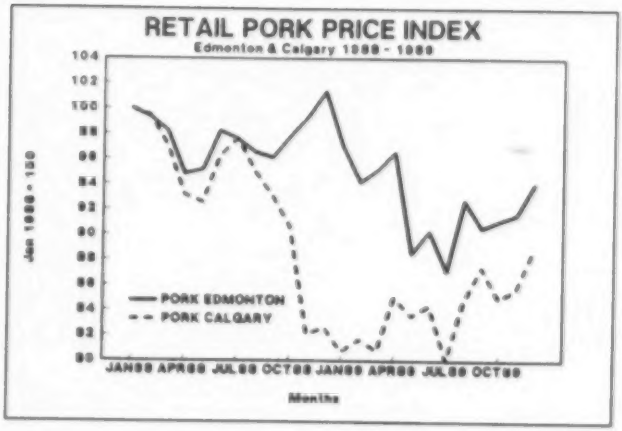
r Revised

Table 74
FOOD AND BEVERAGE INDUSTRIES

	Establishments		Value of Shipments and Other Revenue	
	1986	1987	1986	1987
	- number-		- thousands of dollars -	
Meat & Meat Products (exc. poultry)	70	64	1,914,802	2,340,450
Poultry Products Industry	6	6	145,995	166,836
Fish & Fish Products Industry	1	1	*	*
Fruit & Vegetable Industries	7	6	52,394	63,605
Fluid Milk Industry	6	6	*	*
Other Dairy Products Industry	31	32	341,249	344,704
Cereal Grain Flour Industry	4	4	109,798	122,836
Prepared Flour Mixes & Cereal Foods	2	2	*	*
Feed Industry	67	65	312,126	289,325
Vegetable Oil Mills (exc. corn oil)	5	6	*	*
Biscuit Industry	3	2	*	*
Bread & Other Bakery Products	42	34	114,927	122,425
Sugar & Sugar Confectionery Industry	7	8	7,500	*
Tea & Coffee Industry	1	1	*	*
Dry Pasta Products Industry	6	6	*	*
Potato Chip, Pretzel & Popcorn	3	3	*	*
Other Food Products n.e.c. (incl. malt)	21	17	128,025	132,799
Soft Drink Industry	15	15	184,634	205,518
Distillery Products Industry	3	3	*	*
Brewery Products Industry	5	7	130,035	132,941
Wine Industry	2	2	*	*
TOTAL	307	290	4,071,458	4,634,716

* Confidential to meet secrecy requirements of the Statistics Act.





Retail Food Price Indices

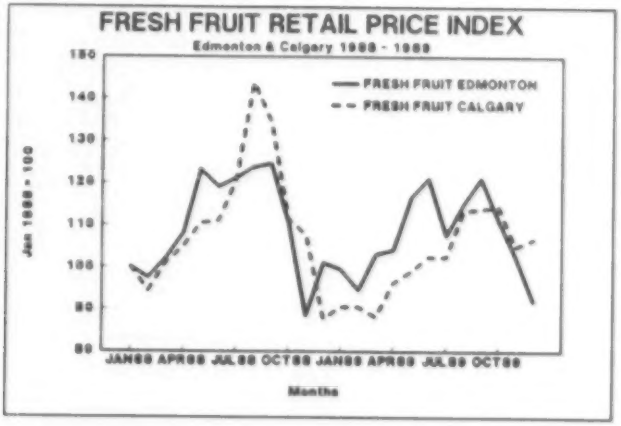
Retail prices of over 60 food items are collected each week at representative stores of the major food chains in Edmonton and Calgary. The prices are weighted to account for estimated market share held by each chain as well as the relative importance of each item in the total food at home budget. The index base is January 1988.

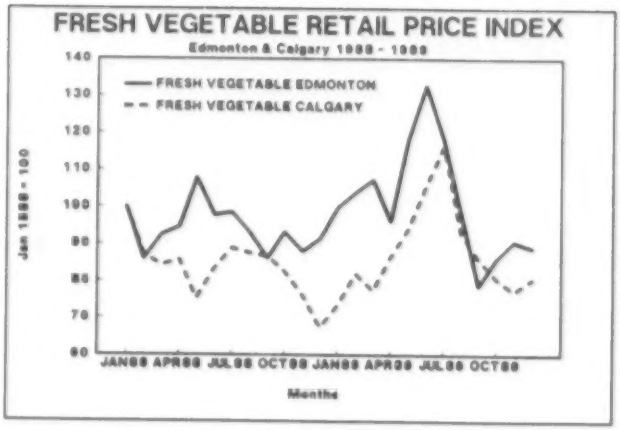
Beef Retail Price Index

The retail price index of beef increased about 15 index points, in Edmonton, over 1988 and 1989 in response to stronger producer prices. Seasonally higher prices for barbecue preferred cuts are reflected in the increased beef price index during the summer months. As well, increases in the index in late fall of each year are generally the result of decreased availability of slaughter beef during this period. Beef retail price indices for Edmonton and Calgary typically follow a similar pattern, however, increased competition from the introduction of a new competitor to the Calgary market place late in 1988 caused a dramatic decline in the Calgary index to the end of 1988. In 1989 the indices did follow a similar pattern, however, the beef price index for Calgary was about 20 index points below Edmonton, due in part to continuing competition in the Calgary market place.

Pork Retail Price Index

The retail price index of pork in both Edmonton and Calgary followed a very similar pattern until the fall of 1988. At this time increased competition in the Calgary market, due to the addition of a new competitor, caused the Calgary index to drop dramatically to the end of the year. Decreased production in the fall of 1988, as a result of a packing plant labor dispute, exerted upward pressure on the pork retail price indices for both cities until the dispute was resolved in the summer of





1989. The Calgary index fluctuated at almost 15 index points below that of Edmonton due to continuing competition between the many strong stores in the Calgary market. The retail pork price indices for both cities increased to the end of the year. The Edmonton index finished 1989 about three index points lower than it began the year while the Calgary index finished 1989 about seven index points higher than it began the year.

Fresh Fruit Retail Price Index

The fresh fruit retail price indices for Edmonton and Calgary followed a similar pattern in 1988 and 1989. In 1989, the indices for both cities showed almost no change from 1988 due to a bountiful harvest in both years, especially of apples which are the major component of the fresh fruit retail price index. The cyclical peaks of the indices are indicative of the seasonal supply trendswhile the timing of the cyclical depressions are an indicator of harvest and the depth of the decline an indicator of the harvest yields.

Fresh Vegetable Retail Price Index

The fresh vegetable retail price indices for Edmonton and Calgary continued their cyclical trends by peaking in early summer of each year as supplies of local storable fresh vegetables decline. Since potatoes are a major component of the fresh vegetable retail price index, locally available potato supplies often have the dominant influence on the index. This was evident in the spring of 1989 when lower supplies of domestic potatoes were supplemented with higher priced imported potatoes, causing the indices for both cities to reach their highest point in the two year period. As well the reversal of the indices between Edmonton and Calgary in the spring of 1988 was due to the earlier importing of new out-of-country potatoes to the Edmonton market. The fresh vegetable retail price index for Calgary was also influenced by increased competition in the Calgary market place late in 1988 causing the index to decline further than that of the Edmonton index.

AGRICULTURAL EXPORTS

INTRODUCTION

Export statistics are presented in two forms: shipments out of Alberta to all destinations including other Canadian provinces (i.e. out-of-province) and shipments to destinations outside Canada (i.e. out-of-country). Estimates of out-of-province shipments were derived by subtracting apparent provincial consumption from provincial production using data from a variety of sources, ranging from government publications to private industry contacts.

Primary out-of-country exports were obtained from the International Trade Division of Statistics Canada. Supplementary statistics were mainly from provincial government sources. In a number of cases adjustments and revisions to Statistics Canada's export data were required to overcome misrepresentations resulting from the attribution of exports on a province of lading basis rather than by province of origin.

OUT-OF-PROVINCE SHIPMENTS

The total value of out-of-province shipments declined in 1989 by three per cent to $3,675 million from $3,786 million in 1988. The reduction was due mainly to a $103 million drop in grains and oilseed shipments. In spite of this, grains and oilseeds made up 46 per cent of the total value of shipments.

Meat and animal products accounted for 30 per cent of the value of shipments, with live animals representing a further 13 per cent. Forage seeds and other crops and crop products accounted for another ten per cent. Peat moss and beverages constituted the remaining one per cent of shipments.

EXPORT OVERVIEW

The value of Alberta's 1989 out-of-country exports of primary and processed agricultural products was estimated at $2,081 million. This represented about 57 per cent of out-of-province shipments. In 1988 out-of-country exports totalled $2,431 million, representing 64 per cent of the out-of-province shipments for that year. Significant gains were achieved in exports of beef, barley, oats, dehydrated alfalfa and milled cereals. These advances were, however, more than offset by substantial decreases in shipments of such major commodities as wheat, canola oil and canola meal.

Alberta's live cattle export value decreased in 1989 to $146.6 million from $222.4 million in 1988. This resulted from a reduction of some 75,000 head in sales volume owing to increased feeding and slaughter activity domestically. In consequence, Alberta's share of Canadian cattle exports fell to 34 per cent from the previous year's level of 50 per cent.

Exports of pork in 1989 declined by 28 per cent to about $34 million as a result of the imposition by the U.S. of countervail duty. However, live hog export sales were strong during the year, totalling some $56 million, over five per cent higher than the previous year's total.

Wheat exports, valued at $573 million, were down 46 per cent from a year earlier. Nonetheless, wheat remained Alberta's most important agricultural export commodity, accounting for over 27 per cent of total export revenue. The 1989 wheat export value was one of the lowest on recent record, and was caused by marked decreases in shipments to the U.S.S.R. and China (PR).

Exports of oats more than doubled from 1988 levels to over $87 million. Barley exports also doubled to $291 million while canola/rapeseed shipments rose by over $23 million to almost $254 million.

TRADING PARTNER AND REGIONAL REVIEW

Alberta's major agricultural export markets have traditionally included the United States, Japan, the USSR and, to a lesser extent, the People's Republic of China, Saudi Arabia, Taiwan and South Korea. In 1989, these seven countries accounted for $1,584 million worth of shipments, fully three-quarters of the total out-of-country exports during the year.

United States

The U.S. was Alberta's most important customer in 1989, purchasing about $609 million worth of agricultural commodities, a rise of two per cent from 1988. While shipments of many products were down, increases in exports of a few major items were sufficient to produce this modest growth.

Beef exports rose by approximately $16.3 million to $65 million mainly as a result of a 26 per cent increase in sales volume. Oat exports were up from $31.3 million a year earlier to $80.9 million, with quantities rising from 205 052 tonnes to 486 472 tonnes. Also, noteworthy increases occurred in exports of barley, dehydrated alfalfa, seeds for sowing, and fruits, vegetables and their preparations.

Persistent problems in the packing industry, and countervail duties, led to a 33 per cent decrease in pork shipment volumes, with total value declining from $46.2 million to $31.6 million. Feeder and slaughter cattle exports, due to expanded feedlot and packing plant capacities in Alberta, were down from 216,086 head in 1988 to 141,767 head. Purebred cattle exports also decreased markedly due partly to continued herd expansion in the province.

Japan

Japanese imports of agricultural commodities from Alberta were estimated at about $529 million, compared with $472 million and $354 million in 1988 and 1987, respectively. Canola, at a value of $220 million, was the single most important export commodity, accounting for close to 42 per cent of the total 1989 export value and advancing some $15 million from 1988.

Beef shipments to Japanese markets rose sharply to 2 599 tonnes, from 985 tonnes in 1988, because of less restrictive import quotas. The total shipment value of $13.4 million was almost two-and-a-half times the 1988 value. Significant advances were also achieved in shipments of dehydrated alfalfa, raw hides and skins, and milled and unmilled cereals.

People's Republic of China

Alberta's exports of agricultural commodities to the People's Republic of China in 1989 totalled $118.8 million, down from a record $441.1 million in 1988. The sole cause of this reduction was a dramatic $340.5 million drop in wheat exports. Barley shipments more than doubled in value to $14.2 million while canola oil shipments, nil in 1988, totalled $9.8 million in 1989.

Other Asia

Other Asian markets of any consequence to Alberta in 1989 included Taiwan, South Korea, Indonesia, the Philippines and Bangladesh. Exports to these countries were worth $131.7 million and mostly comprised raw hides and skins, wheat, oilseed cake and meal, and beef.

U.S.S.R.

The only Alberta commodity of significance purchased by the U.S.S.R. on a regular basis is wheat. It consistently accounts for over 80 per cent of this province's agricultural shipments to that country. In 1989, it accounted for 84 per cent of the $126.8 million export total, despite a $113.2 million drop. Significantly, barley shipments rose from just over half a million dollars to almost $16 million.

Western Europe

Exports to Western Europe totalled $127.1 million, down from a 1988 total of $152.1 million. Italy, Belgium/Luxembourg and the United Kingdom, with $28.4 million, $24.3 million and $21.9 million worth of purchases, respectively, were the major markets. Wheat was by far the most important commodity, making up over 40 per cent of the total export value. Horsemeat and tallow shipments were also significant.

Middle East

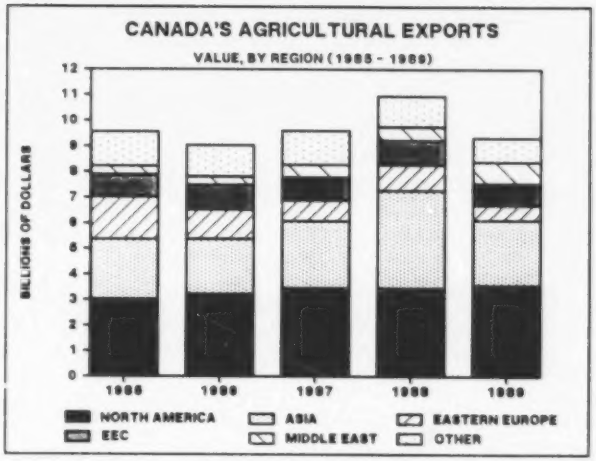
Shipments from Alberta to the Middle East increased by a very significant 82 per cent in 1989 to $254.6 million. Saudi Arabia alone accounted for 45 per cent of the total exports to the region, with $115 million worth of purchases, up from $43.4 million in 1988. Iran and Iraq were also major buyers. Prominent among the commodities shipped to the Middle East were barley (mostly to Saudi Arabia) and wheat.

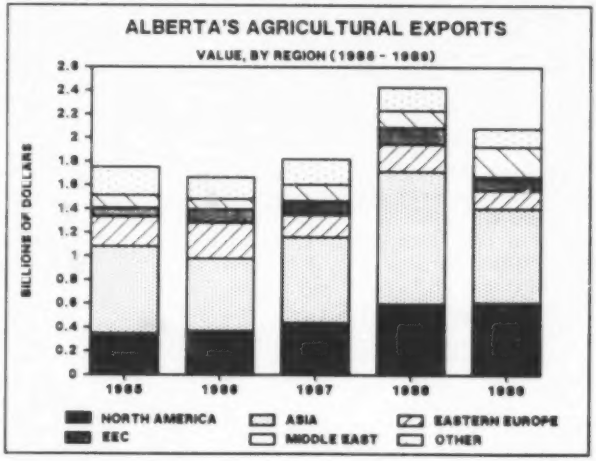
Other Africa

Alberta's agricultural exports to this region in 1989 amounted to $32.7 million, compared with $34.4 million during the preceding year. The decline was due to significantly reduced Algerian imports of wheat.

South and Central America

Agricultural exports to South and Central America from Alberta in 1989 were worth $32.3 million and $68.8 million, respectively. The combined total of $101.1 million was 25 per cent lower than the corresponding total for 1988. Mexico ($38.1 million), Cuba ($22.6 million), Colombia ($13.7 million) and Brazil ($12.0 million) were the region's most active importers. Heading the list of commodities imported were wheat ($49.3 million) and canola ($24.2 million to Mexico).





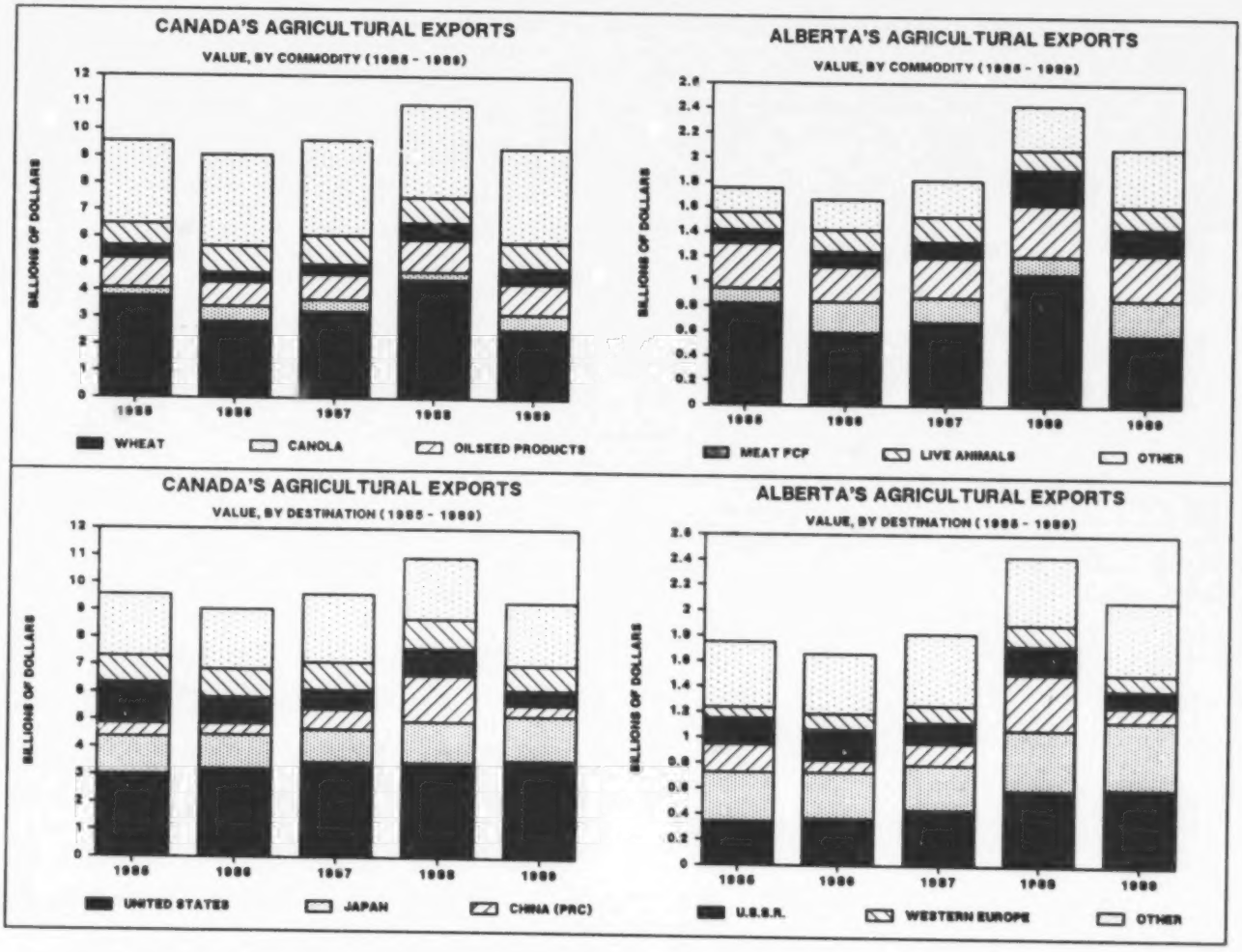

CANADA'S AGRICULTURAL EXPORTS
VALUE, BY COMMODITY (1985 - 1989)
BILLIONS OF DOLLARS
WHEAT
CANOLA
OILSEED PRODUCTS
ALBERTA'S AGRICULTURAL EXPORTS
VALUE, BY COMMODITY (1985 - 1989)
BILLIONS OF DOLLARS
MEAT PCP
LIVE ANIMALS
OTHER
CANADA'S AGRICULTURAL EXPORTS
VALUE, BY DESTINATION (1985 - 1989)
BILLIONS OF DOLLARS
UNITED STATES
JAPAN
CHINA (PRC)
ALBERTA'S AGRICULTURAL EXPORTS
VALUE, BY DESTINATION (1985 - 1989)
BILLIONS OF DOLLARS
U.S.S.R.
WESTERN EUROPE
OTHER

Table 75
OUT-OF-COUNTRY EXPORTS - ALL COUNTRIES

	Alberta		Western Canada		Canada	
	1988r	1989	1988r	1989	1988r	1989
			- thousands of dollars -			
Live Animals	281,772	206,310	447,816	379,058	610,654	562,916
Meat, Fresh, Chilled or Frozen	145,900	165,840	300,577	314,206	882,664	884,468
Other Meat and Meat Preparations	14,549	11,573	37,477	37,867	77,827	78,303
Dairy Produce, Eggs and Honey	3,979	5,234	19,709	28,575	227,586	228,025
Barley	143,602	291,105	282,709	573,098	282,708	573,098
Wheat	1,068,110	572,997	4,438,071	2,432,811	4,439,492	2,578,918
Other Cereals, Unmilled	38,817	92,590	88,284	187,059	129,069	206,168
Hard Spring Wheat Flour	4,033	7,693	11,136	13,364	50,408	61,444
Other Cereals, Milled	28,906	47,939	53,590	81,908	103,115	96,047
Cereal Preparations	3,408	4,215	15,360	11,974	202,973	189,817
Fruit, Vegetables and Preparations	33,078	34,300	235,607	198,455	601,215	573,854
Sugar and Sugar Preparations	109	1,240	6,145	6,833	154,868	170,770
Other Foods and Materials for Food	2,536	2,907	17,227	20,165	218,669	216,340
Oilseed Cake and Meal	78,182	49,054	100,440	73,162	116,553	94,847
Dehydrated Alfalfa	32,726	50,424	50,348	72,034	53,361	74,001
Other Feeds of Vegetable Origin	8,347	11,294	45,058	36,400	87,614	80,142
Other Fodder and Feeds	8,736	11,251	53,262	73,232	134,146	170,312
Whiskey	16,746	16,404	26,931	26,452	272,823	243,518
Other Beverages	4,018	2,749	29,000	37,392	256,604	244,273
Tobacco	13	0	370	104	103,056	92,276
Raw Hides and Skins	101,976	95,830	150,552	86,633	261,145	244,261
Fur Skins Undressed	299	118	11,481	16,748	141,218	107,341
Other Crude Animal Products	5,974	10,072	11,098	15,454	59,832	75,651
Seeds for Sowing	20,177	25,904	46,668	48,516	59,601	60,523
Flaxseed	8,338	15,539	166,757	198,692	168,460	201,811
Canola	230,629	253,774	606,919	622,899	607,398	623,873
Other Oilseeds, Oil Nuts and Oil Kernels	10,406	8,999	47,547	49,575	123,694	126,516
Other Crude Vegetable Products	11,827	11,854	22,827	29,060	214,774	254,744
Oils, Fats, Waxes, Extracts and Derivatives	123,431	73,908	232,554	141,942	308,335	215,800
TOTAL	2,430,624	2,081,117	7,555,519	5,813,668	10,949,862	9,330,057

r Revised

TABLE 76
ESTIMATES OF OUT-OF-PROVINCE SHIPMENTS

Commodity	Quantity		Value	
	1988r	1989	1988	1989
	- thousands of tonnes -		- thousands of dollars -	
Wheat	5 662	3 900	1,163,882	767,119
Oats	420	544	57,042	90,585
Barley	2 733	3 034	254,702	391,317
Rye	51	69	6,078	7,519
Flaxseed	24	39	8,338	15,539
Canola	903	1 400	303,265	417,712
Mustard See	29	24	7,942	8,482
Forage Seeds	20	15	22,829	12,687
Potatoes	7	41	1,243	11,313
Alfalfa, dehydrated	244	307	32,726	50,424
Honey	8	6	8,147	5,061
Wheat Flour	77	89	30,193	29,197
Malt and Malt Flour	105	114	38,299	47,848
Canola Oil Cake and Meal	423	280	91,593	58,800
Canola Oil	240	203	122,721	110,134
Other Crops and Crop Product	N/A	N/A	54,115	48,376
Beef and Veal	265	288	737,265	765,428
Pork	34	34	74,194	75,374
Other Meats	17	17	56,494	47,434
Other Animal Products	N/A	N/A	221,379	204,055
Cattle (Number)	427 079	422 953	370,673	386,727
Swine (Number)	679 483	753 266	83,183	87,501
Other Live Animals	N/A	N/A	5,498	5,681
Peat Moss	81	79	13,413	11,693
Whiskey	N/A	N/A	16,746	16,404
Beer and Other Beverages	N/A	N/A	4,018	2,749
TOTAL			3,785,978	3,675,059

r Revised
N/A Data not available

CENSUS AND COMPARATIVE DATA

Table 77
CENSUS DATA (1)

		1971	1976	1981	1986
Total Population	no.	1,627,874	1,838,037	2,237,724	2,375,278
Farm Population	no.	237,924	219,302	195,284	183,830
Number of Farms	no.	62,702	61,130	58,056	57,777
Average Size of Farm	ac.	790	817	813	883
Average Value of Agricultural Products Sold per Farm	$	13,273	N/A	56,236	77,433
Distribution of Farms by Size:					
Under 10 Acres	%	1.4	1.2	1.5	1.8
10 - 69 Acres	%	4.0	5.8	5.8	5.8
70 - 239 Acres	%	16.9	18.9	21.4	21.8
240 - 399 Acres	%	20.1	17.8	16.2	15.1
400 - 559 Acres	%	14.6	13.0	11.8	10.8
560 - 759 Acres	%	13.1	11.9	11.0	10.6
760 - 1,119 Acres	%	13.5	13.4	13.1	12.7
1,120 - 1,599 Acres	%	7.7	8.2	8.6	8.9
1,600 - 2,239 Acres	%	4.0	4.3	4.9	5.4
2,240 - 2,879 Acres	%	1.7	2.0	2.1	2.6
2,880 Acres and Over	%	3.0	3.5	3.6	4.4
Distribution of Farms by Tenure of Operator:					
Owner	%	59.3	60.4	58.3	52.4
Tenant	%	6.7	6.3	6.3	7.0
Owner-Tenant	%	34.9	33.3	35.5	40.6

N/A Data not available

1 The definition of a census-farm changed between the Census of Agriculture years illustrated. The data for 1971 and 1976 use the term census-farm to refer to a farm, ranch, or agricultural holding of one acre or more with sales of agricultural products, during the 12 month period prior to the census, of $50 or more.

In 1981 and 1986 the minimum size requirement was removed, while the requirement for sales of agricultural products was increased to $250 or more.

Table 77 (cont'd)
CENSUS DATA

		1971	1976	1981	1986
Distribution of Farm Operators by Age:					
Under 25 Years	%	2.5	3.6	3.5	2.6
25 - 34 Years	%	14.2	16.3	17.9	17.1
35 - 44 Years	%	24.1	24.0	23.5	22.9
45 - 54 Years	%	28.6	27.1	26.0	24.1
55 - 59 Years	%	11.5	11.3	11.3	11.8
60 - 64 Years	%	9.1	8.5	8.7	9.8
65 - 69 Years	%	5.8	5.0	5.2	6.1
70 Years and Over	%	4.2	4.2	3.9	5.6
Average Age of Farm Operator	yrs.	49	47	46	48
Land Use:					
Occupied Farm Land	'000 ac.	49,506	49,929	47,218	51,040
Improved Farm Land	'000 ac.	28,460	29,302	30,951	31,892
Field Crops	'000 ac.	18,092	18,877	20,859	22,641
Wheat Total	'000 ac.	3,443	5,545	6,705	7,602
(Durum)	'000 ac.	(242)	(N/A)	(506)	(639)
Oats for Grain	'000 ac.	1,864	1,794	1,311	1,183
Barley for Grain	'000 ac.	5,689	5,630	6,433	5,568
Mixed Grain	'000 ac.	419	268	145	122
Fall Rye	'000 ac.	226	) 181 *	241	169
Spring Rye	'000 ac.	24		52	45
Flaxseed	'000 ac.	271	73	102	85
Canola/Rapeseed	'000 ac.	1,988	740	1,455	2,803
Tame Hay	'000 ac.	3,260	3,850	3,481	3,734
Sugar Beets	'000 ac.	43	42	36	30
Improved Pasture	'000 ac.	2,745	3,278	3,908	3,402
Summerfallow	'000 ac.	7,009	6,494	5,450	5,256
Other Improved Land	'000 ac.	614	653	734	592
Unimproved Land	'000 ac.	21,046	20,627	16,267	19,149

* Value is for both spring and fall rye.

Table 77 (cont'd)
CENSUS DATA

		1971	1976	1981	1986
Livestock and Poultry:					
Cattle and Calves	'000 head	3,702	4,614	4,193	3,827
Pigs	'000 head	1,816	878	1,199	1,455
Sheep	'000 head	245	189	201	179
Horses	'000 head	89	90	119	135
Hens and Chickens	'000 head	7,923	7,981	9,190	8,852
Turkeys	'000 head	896	822	903	763
Farm Machinery:					
Tractors	no.	111,256	118,987	124,214	150,479
Grain Combines	no.	42,373	42,984	42,663	42,970
Swathers	no.	40,749	44,227	47,601	49,144
Motor Trucks	no.	93,471	112,836	123,835	146,309
Farm Capital:					
Total Capital Value	$ '000	5,201,553	13,861,646	36,827,140	28,623,414
Land and Buildings	$ '000	3,530,252	10,627,528	29,961,159	20,773,520
Machinery and Equipment	$ '000	867,446	2,110,053	4,362,215	5,382,302
Livestock and Poultry	$ '000	803,855	1,124,065	2,503,766	2,467,592
Average Capital Value Per Farm	$ '000	83	227	634	495

Table 78
COMPARATIVE STATISTICS

		Alberta	Alberta as Per Cent of: Prairie Provinces	Canada
CENSUS STATISTICS 1986				
Total Population	no.	2,375,278	53.3	9.4
Number of Farms	no.	57,777	38.9	19.7
Total Land Area	ac.	157,710,720	36.3	6.9
Occupied Farm Land	ac.	51,040,463	37.6	30.5
Improved Land	ac.	31,891,516	33.7	28.1
Unimproved Land	ac.	19,148,947	46.6	35.5
Per Cent of Total Land Occupied	%	32.4	-	-
CROP AREA 1989				
All Wheat	ac.	7,600,000	23.2	22.6
Winter Wheat	ac.	150,000	50.8	14.5
Spring Wheat	ac.	6,450,000	21.9	24.6
Durum Wheat	ac.	1,000,000	15.5	17.9
Oats for Grain	ac.	1,700,000	50.0	40.3
Barley for Grain	ac.	5,100,000	49.0	44.3
All Rye	ac.	250,000	21.9	20.9
Mixed Grains	ac.	180,000	54.5	19.1
Flaxseed	ac.	80,000	5.1	5.1
Canola/Rapeseed	ac.	2,700,000	38.3	37.6
Corn for Grain (1)	ac.	9,000	9.6	0.4
Peas,dry (1)	ac.	110,000	25.0	25.0
Lentils (1)	ac.	7,000	2.4	2.4
Mustard Seed (1)	ac.	80,000	15.1	15.1
Tame Hay	ac.	4,600,000	55.8	31.4
Fodder Corn (1)	ac.	15,000	33.3	2.5
Sugar Beets	ac.	29,600	53.2	53.2
Potatoes	ac.	24,700	34.1	8.9
Summerfallow	ac.	4,950,000	23.9	23.9

1 Source: Alberta Agriculture Specialty Crop Historical Series. These estimates are on a field run basis and have not been adjusted for dockage.

Table 78 (cont'd)
COMPARATIVE STATISTICS

		Alberta	Alberta as Per Cent of: Prairie Provinces	Canada
		LIVESTOCK ON FARMS, JULY 1, 1989		
Bulls	no.	91,000	56.5	39.1
Milk Cows and Heifers	no.	176,000	51.3	8.5
Beef Cows and Heifers	no.	1,753,000	54.8	41.7
Heifers for Slaughter	no.	260,000	72.2	41.1
Steers	no.	470,000	65.2	39.8
Calves	no.	1,440,000	55.4	37.3
Total Cattle and Calves	no.	4,190,000	56.7	34.4
Hogs - Breeding Stock 6 Months and Over	no.	184,000	45.3	16.7
All Other Pigs	no.	1,566,000	46.4	16.4
Total Hog	no.	1,750,000	46.3	16.5
Sheep One Year and Over	no.	88,000	71.6	24.9
Lambs Under One Year	no.	110,000	75.9	33.8
Total Sheep and Lambs	no.	198,000	73.9	29.1

FARM STRUCTURE CHARACTERISTICS

A summary of the socioeconomic characteristics that define the structure of the Alberta farm sector is included for the first time in the 1989 Yearbook. Information concerning economic aspects such as sales, off-farm work and farm size, as well as social characteristics of farm operators such as age and level of education are included, as well as farm and non-farm population.

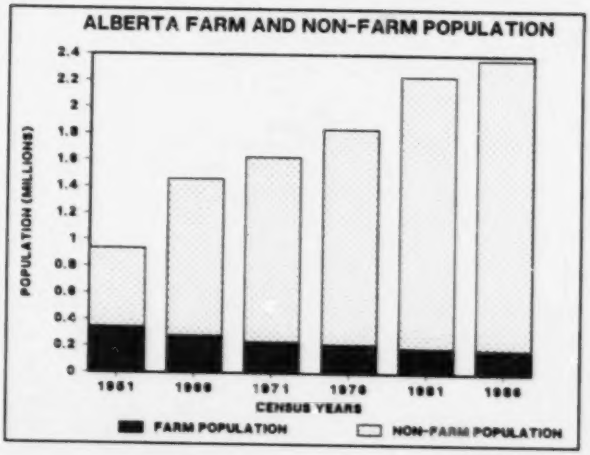
Current farm structural trends include a decreasing number of farms, larger farms containing a smaller proportion of owned land with higher farm sales, and a decrease in medium sized farms. Farm operators on average have higher levels of education and off-farm employment. These trends are presented in greater detail below.

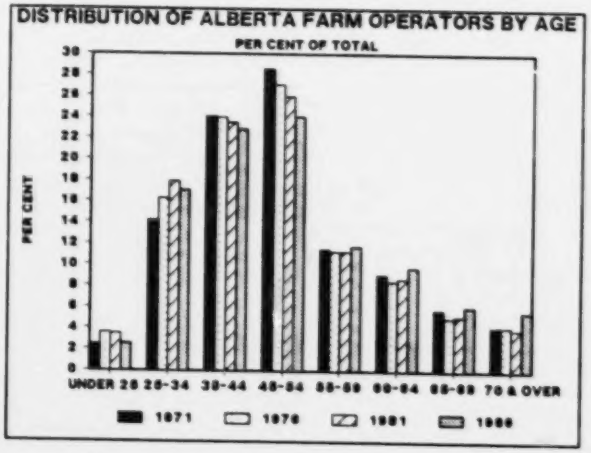
Farm and Non-farm Population

There is a consistent downward trend in farm population and significant increases in non-farm population over the period 1951 to 1986 (see graph to right). Part of this decline in farm population may be attributed to decreasing farm numbers, while part is due to reduced family size (see Table 77). In 1961 the average farm family had 4.2 members while in 1986 the number of members had dropped to 3.6.

Age of Operators

Overall, the data suggests a growing dichotomy with regard to the age of farm operators. In the four most recent census periods the age group with the largest share of farm operators was the 45-54 year old group, while the category with the smallest share of operators was the "under 25 years of age" group. The data shows the percentages of farm operators in the 35-44 and 45-54 year groups have consistently fallen over the 15 year period. The share of farm operators under 35 years of age increased from 16.7 per cent in 1971 to 19.7 per cent in 1986 (see graph to right). The four oldest age groups

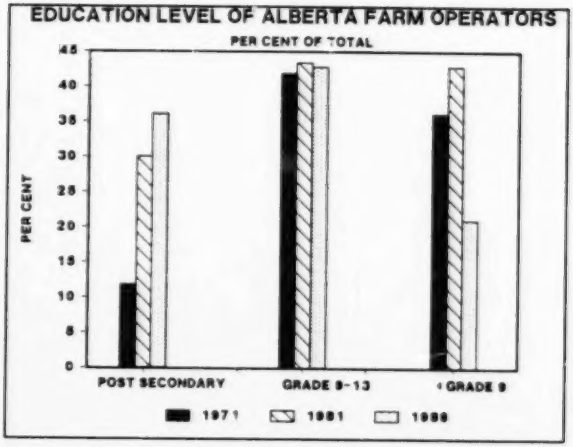




(55-59, 60-64, 65-70 and 70 and older) generally move together and have shown a net increase in percentage share of operators from 30.6 per cent in 1971 to 33.3 per cent in 1986, in spite of a general decline for all farmers between 1971 and 1976 and variable changes between 1971 and 1981.

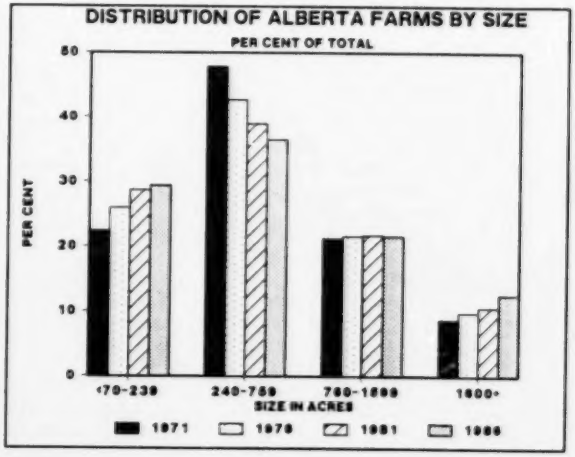
Level of Education of Farm Operators

The level of education of farmers rose between 1971 and 1986 (see graph to right). The percentage of operators having less than a grade nine education has declined from 46.3 per cent in 1971 to 21.1 per cent in 1986. This decrease was almost matched by an increase in the share of operators completing at least some post-secondary education. This category increased from 11.8 per cent in 1971 to 36.1 per cent in 1981. The percentage share of operators having completed some or all high school requirements remained relatively unchanged during this period.



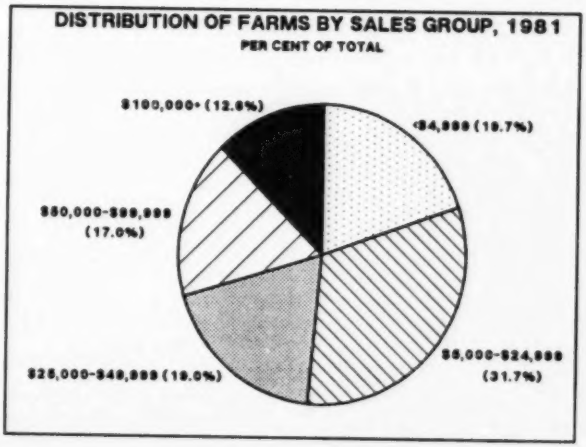
Farm Size

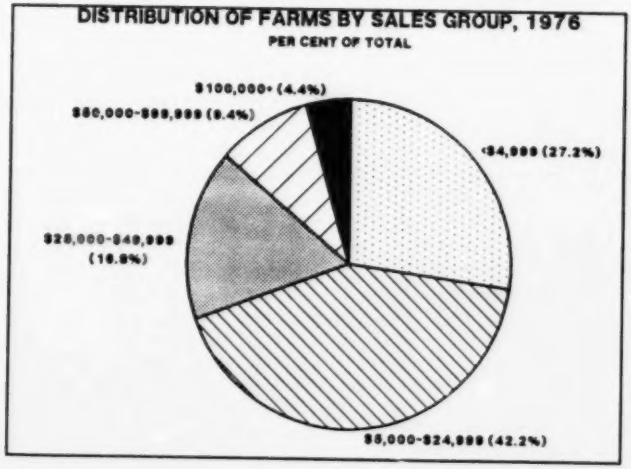
Farm size has changed between 1971 and 1986. The number of farms under 240 acres has increased from 22.4 per cent of the total in 1971 to 29.4 per cent in 1986. The number of mid-size farms (240 to 759 acres) declined during this period from 47.8 per cent to 36.5 per cent of the total. The share of farms in the 760 to 1,599 acre size category remained relatively stable over the 15 year period. The share of large farms (1,600 plus acres) increased from 8.7 per cent in 1971 to 12.5 per cent in 1986. This translates into an annual increase of 2.1 per cent for small farms (under 240 acres), a 1.6 per cent annual decrease for mid-size farms and an annual increase of 2.9 per cent for large farms. The consistency of these movements between census periods indicates that the percentage shares of small and large farms are increasing while those in the middle are decreasing. This growing dichotomy suggests a movement toward large commercial farms and smaller part-time or beginning farms.

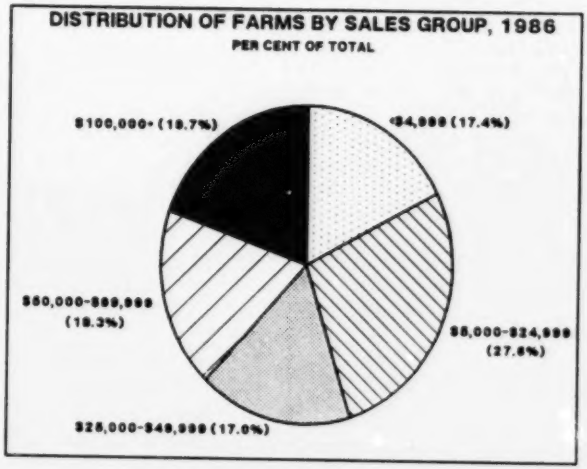


Farms Classified by Level of Sales

Between 1971 and 1986 the percentage of farms in the two smallest sales groups, under $5,000 and $5,000-$24,999, decreased dramatically. The under $5,000 group declined continuously from 41.9 per cent of farms in 1971 to 17.4 per cent of farms in 1986. The $5,000 to $24,999 category also declined continuously from 47.1 per cent of farms in 1971 to 27.6 per cent in 1986. The mid-size sales class ($25,000-$49,999) showed more variability, rising from 7.1 per cent in 1971 to 19.0 per cent in 1981, then dropping to 17.0 per cent in 1986. The two largest groups showed consistent growth. The group $50,000 to $99,999 increased from 3.6 per cent in 1971 to 18.3 per cent in 1986. The share the $100,000 and and over group rose from 4.4 per cent in 1976 to a high of 19.7 in 1986 (see pie charts).

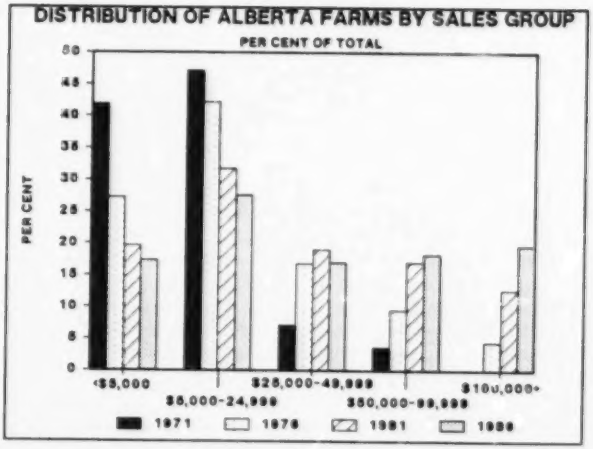


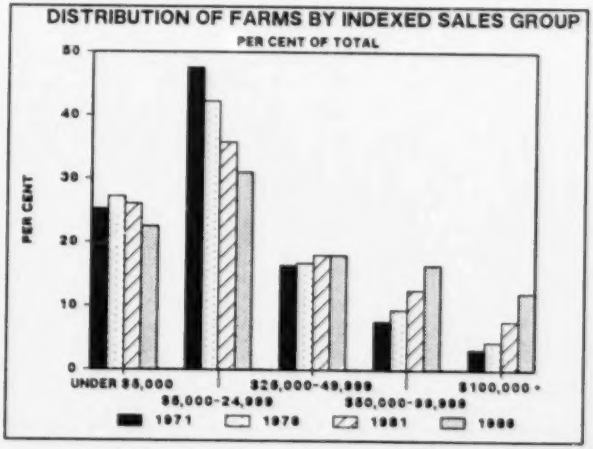




The above information was based on farm sales in current period dollars. When farm sales are indexed into 1975 base dollars with farms grouped into the same sales class categories, the majority of the trends are unaffected. The major differences occurred in the under $5,000 class and the $25,000 to $49,999 class. In the under $5,000 class the decline in percentage share is less prominent but still evident. In the $25,000 to $59,999 class the increase in percentage share over time is more consistent but of a significantly smaller value.

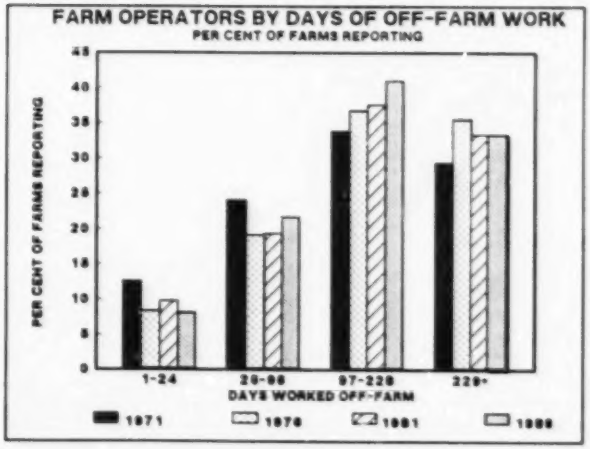
Overall there is an indication of a movement from smaller to larger sales classes. In both methods of classification the $5,000 to $24,999 class is the largest class. The graphs show that if current dollar sales values are used, by 1986 the remaining four classes are nearly equal terms of percentage share. When sales are indexed, the under $5,000 class contains a higher percentage of farms than if non-indexed. The $25,000 to $49,999 and $50,000 to $99,999 classes are of similar size in both indexed and non-indexed series, while the $100,000 and over class decreases in percentage share when indexed.





Off-Farm Work by Farm Operators

Over the fifteen year period 1971 to 1986 the share of farms reporting off-farm work increased from 33.7 to 43.5 per cent. Of the farm operators reporting off-farm work, the number of days worked also increased. The largest increase has been in the 97 to 228 day category, while the strongest decline has been in the 1 to 24 day group (see table below). The number of farm operators working 25 to 96 days decreased while those working 229 or more days increased. In 1971, 29.4 per cent of farmers worked off-farm for 229 or more days a year. By 1976, this proportion had increased to 35.6 per cent. In 1981 and 1986 33.3 per cent of farmers reporting off-farm work were working full-time in another job (229+ days). This accounted for 13.9 per cent of all census-farms in 1986 (see graph to right).



OFF-FARM WORK BY FARM OPERATORS

	Farms Reporting	Number of Days of Off-Farm Work: 1-24 days	25-96 days	97-228 days	229+ days
	- % of total -	- % of farms reporting -			
1971	33.7	12.6	24.1	33.9	29.4
1976	34.7	8.4	19.2	36.8	35.6
1981	41.5	9.8	19.3	37.6	33.3
1986	43.5	8.2	21.6	41.0	33.3

Summary

The basic trends and characteristics are as follows:

- Fewer farms and lower farm household population
- Larger farms with more rented and/or leased land
- Polarization of farm size
- Higher degree of off-farm work
- Polarization in age of farm operators
- Increasing level of education of farm operators

Table 79
CANADIAN - METRIC CONVERSIONS

AREA		
1 hectare	2.47109	acres
	0.00368	square mile
1 square kilometre	0.36810	square mile
1 acre	0.40468	hectare
1 square mile - (640 acres)	259	hectares
	2.59	square kilometres
1 arpent	0.871	acre
WEIGHT		
1 kilogram	2.2046	pounds
1 tonne (1 000 kg)	2204.622	pounds
	22.046	short hundred-weights
	19.684	long hundred-weights
	1.10231	short tons
	0.98420	long ton
1 pound	0.45359	kilogram
1 short hundredweight (100 lb.)	0.045359	tonne
1 long hundredweight (112 lb.)	0.050802	tonne
1 short ton (2,000 lb.)	0.90718	tonne
1 long ton (2,240 lb.)	1.01605	tonne

Table 80
WEIGHT EQUIVALENTS OF SELECTED COMMODITIES

Wheat		
1 bushel	0.027216	tonne
1 tonne	36.744	bushels
Oats		
1 bushel	0.015422	tonne
1 tonne	64.842	bushels
Barley		
1 bushel	0.021773	tonne
1 tonne	45.930	bushels
Rye, Flaxseed and Corn		
1 bushel	0.0254	tonne
1 tonne	39.368	bushels
Canola/Rapeseed		
1 bushel	0.02268	tonne
1 tonne	44.092	bushels
Mixed Grain		
1 bushel	0.020412	tonne
1 tonne	48.992	bushels

SOURCES AND METHODS

The general procedure used in preparing this yearbook has not changed significantly since 1972. A large percentage of the material presented for the current year was based on estimates derived from sample data. Users are reminded that the data is subject to revision.

INCOME

Various people within Alberta Agriculture, Statistics Canada, Agriculture Canada and Industry have been valuable as sources for the estimation of Farm Cash Receipts and Expenses.

Total production value includes all crops grown on farms in the current year for sale, feed, seed and home consumption at the prevailing market prices during the crop year. The method of disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. Production value for each crop represents value to the producer.

Prices used to calculate value of production are those which farmers receive at the shipping point less freight, handling and other marketing charges. Transportation costs incurred by farmers themselves in delivering grain to elevators are included with farm expenses. The estimated final prices are subject to revision after all relevant sales and payments are made.

The Alberta Input Monitoring System (AIMS), under the auspices of Alberta Agriculture has been used as a source for input data. Further information regarding AIMS or any of the other data is available through the Statistics Branch, Alberta Agriculture.

CROPS

Major crop areas are estimated by Statistics Canada in cooperation with Alberta Agriculture. Estimates are for seeded acres in most cases, and yields are reported on the land devoted to the crop at seeding time except for oats and barley which are based on harvested area. Statistics Canada, Agriculture/Natural Resources Division develops yield estimates of major crops through surveys. The November estimates (Statistics Canada 22-002) contain the latest area and yield estimates.

Information for minor crops, except sugar beets, have been estimated from the Alberta Agriculture Specialty Crop Survey. These values are on a field run basis and have not been adjusted for dockage. Sugar beet data were obtained from the Alberta Sugar Beet Growers Marketing Board and Alberta Agriculture.

Forage Seed data are from the Plant Production Division, Agriculture Canada and Processed Alfalfa data figures are from a market survey conducted by Market Analysis Branch, Alberta Agriculture.

Hail and Crop Insurance data were obtained from Alberta Hail and Crop Insurance Corporation. Wheat Board Payments are reported by the Canadian Wheat Board. Lakehead selling prices are recorded by Statistics Canada. Non-Board prices for the major centres in the province are those developed through the Alberta Feed and Forage exchange.

Data for the Supply and Disposition and Farm Stocks of Alberta grains are supplied by Statistics Canada.

Fertilizer sales volumes were provided by the Canadian Fertilizer Institute Association and the Soils Branch of Alberta Agriculture.

Precipitation information is provided by Environment Canada.

Irrigation data are provided by the Irrigation Branch of Alberta Agriculture.

Seed cleaning information is provided by the Association of Alberta Co-Op Seed Plants Ltd.

LIVESTOCK

Market and other data for cattle, hogs and sheep are obtained from the Agriculture Canada publication "Canadian Livestock and Meat Trade Report" and Statistics Canada. Prices pertain to stockyard sales and direct sales.

Data on brand inspection, horse regulation and dairy were obtained from Animal Industry Division, Alberta Agriculture.

Monthly Poultry prices are from the Poultry Market Report by Agriculture Canada. Production values were obtained from Statistics Canada, publication 23-202. Data on hatchery capacity, chick production and poultry eviscerated in registered stations were supplied by the Poultry Branch, Alberta Agriculture. Chick disposition and poult production information was obtained from the Agriculture Canada Publication "Poultry Market Review".

OTHER PRODUCTS

Alberta Agriculture in cooperation with Statistics Canada produce honey estimates.

Fur farm information is obtained from the Animal Health Division.

FOODS

Food and Beverage Industry Statistics were obtained from Statistics Canada Publications 32-203 and 31-001. The Consumer Price Index (CPI) was used in constant dollar calculations.

The Retail food price indices were developed from data collected and assembled by Alberta Agriculture. Further information is available through Statistics Branch, Alberta Agriculture.

EXPORTS

Out-of-province shipments, as used in this yearbook, includes shipments to other provinces as well as out-of-country exports. The primary sources of data for out-of country exports were Statistics Canada Catalogues 65-003 (Exports by Countries) and 65-004 (Exports by Commodities) supplemented with provincial level information from the Alberta Bureau of Statistics and other Statistics Canada publications. In addition, the information necessary to adjust Statistics Canada data to estimated Alberta exports was gathered from many sources within Alberta Agriculture, other government departments, and industry.

FARM STRUCTURE

Data was largely obtained from Statistics Canada's Census of Agriculture and Population. Supplementary data were taken from various Agriculture Canada sources.